## Monthly

Report
October 2009

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## Market Performance Highlights for October 2009

- LBMP for October is $\$ 39.73 / \mathrm{MWh}$, up from $\$ 31.74 / \mathrm{MWh}$ in September 2009.
- Average monthly cost is \$42.86/MWh, up from \$34.49/MWh in September 2009.
- Day Ahead and Real Time LBMPs have increased from September 2009.
- Average daily sendout is $400 \mathrm{GWh} /$ day in October, down from 425GWh/day in September 2009 and lower than the October 2008 sendout of 412GWh/day.
- Average fuel prices are up this month.
- Kerosene is $\$ 14.94 / \mathrm{MMBtu}$, up from $\$ 13.49 / \mathrm{MMBtu}$ in September.
- No. 2 Fuel Oil is $\$ 13.69 \mathrm{MMBtu}$, up from $\$ 13.01 / \mathrm{MMB}$ tu in September.
- No. 6 Fuel Oil is $\$ 11.42 / \mathrm{MMBtu}$, up from $\$ 10.12 / \mathrm{MMBtu}$ in September.
- Natural Gas is $\$ 4.37 \mathrm{MMBtu}$, up from $\$ 3.12 / \mathrm{MMBtu}$ in September.
- Uplift per MWh is up from the previous month.
- Uplift (not including NYISO cost of operations) is $\$ 0.75 / \mathrm{MWh}$, up from $\$ 0.57 / \mathrm{MWh}$ in September.
- No Thunderstorms Alerts were called in October - \$0.00/MWh
- The Local Reliability Share is $\$ 0.80 / \mathrm{MWh}$
- The Other Share is $\$(0.05) / \mathrm{MWh}$
- Total uplift (Schedule 1 components including NYISO Cost of Operations) increased in October to $\$ 18.1$ million from $\$ 15.7$ million in September 2009.

* Excludes ICAP payments.


## NYISO Average Cost/MWh (Energy and Ancillary Services)*

from the LBMP Customer point of view

| 2009 | January | February | March | April | May | June | July | August | September | October | November | December |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LBMP | 73.30 | 52.75 | 45.64 | 39.66 | 37.82 | 39.00 | 40.68 | 43.64 | 31.74 | 39.73 |  |  |
| NTAC | 0.45 | 0.53 | 0.36 | 0.87 | 0.58 | 0.77 | 0.64 | 0.61 | 0.62 | 0.65 |  |  |
| Reserve | 0.26 | 0.35 | 0.31 | 0.24 | 0.30 | 0.23 | 0.24 | 0.16 | 0.24 | 0.26 |  |  |
| Regulation | 0.45 | 0.48 | 0.55 | 0.37 | 0.31 | 0.37 | 0.29 | 0.24 | 0.32 | 0.44 |  |  |
| NYISO Cost of Operations | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.69 |  |  |
| Total Uplift | 0.11 | 0.41 | 0.21 | 0.67 | 0.64 | 1.66 | 2.52 | 2.33 | 0.57 | 0.75 |  |  |
| Uplift: TSA Share | - | - | - | 0.02 | 0.02 | 0.43 | 0.70 | 0.40 | - | - |  |  |
| Uplift: Local Reliability Share | 0.15 | 0.28 | 0.12 | 0.22 | 0.41 | 0.75 | 0.81 | 1.14 | 0.36 | 0.80 |  |  |
| Uplift: Other Share | (0.04) | 0.13 | 0.09 | 0.43 | 0.21 | 0.48 | 1.01 | 0.79 | 0.21 | (0.05) |  |  |
| Voltage Support and Black Start | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |  |  |
| Avg Monthly Cost | 75.55 | 55.50 | 48.06 | 42.81 | 40.65 | 43.03 | 45.35 | 47.97 | 34.49 | 42.86 |  |  |
| Avg YTD Cost | 75.55 | 66.83 | 60.97 | 56.83 | 53.90 | 52.07 | 50.97 | 50.48 | 48.65 | 48.09 |  |  |
| 2008 | January | February | March | April | May | June | July | August | September | October | November | December |
| LBMP | 87.00 | 85.62 | 85.28 | 91.20 | 87.20 | 128.18 | 131.35 | 85.62 | 80.16 | 63.63 | 62.57 | 63.73 |
| NTAC | 0.34 | 0.43 | 0.41 | 0.62 | 0.48 | 0.78 | 1.04 | 0.66 | 0.69 | 0.58 | 1.27 | 0.63 |
| Reserve | 0.38 | 0.48 | 0.55 | 0.46 | 0.34 | 0.27 | 0.28 | 0.25 | 0.27 | 0.35 | 0.27 | 0.26 |
| Regulation | 0.54 | 0.57 | 0.61 | 0.53 | 0.50 | 0.52 | 0.44 | 0.49 | 0.54 | 0.53 | 0.49 | 0.44 |
| NYISO Cost of Operations | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Uplift | 3.10 | 2.48 | 2.01 | 2.58 | 8.53 | 5.51 | 3.54 | 1.38 | 0.42 | 0.58 | 0.13 | 0.42 |
| Voltage Support and Black Start | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 |
| Avg Monthly Cost | 92.37 | 90.58 | 89.87 | 96.40 | 98.07 | 136.27 | 137.65 | 89.41 | 83.09 | 66.68 | 65.75 | 66.50 |
| Avg YTD Cost | 92.37 | 91.52 | 90.98 | 92.26 | 93.37 | 101.31 | 107.98 | 105.57 | 103.30 | 100.31 | 97.64 | 95.32 |

* Excludes ICAP payments.

These numbers reflect the true-ups through March 2009


[^0]DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.


# NYISO Markets Transactions 

| $\underline{2009}$ | January | February | March | April | May | June | July | August | September | October | November | December |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day Ahead Market MWh | 14,570,391 | 12,511,009 | 13,160,913 | 12,121,505 | 12,324,218 | 13,159,069 | 14,549,784 | 15,547,976 | 12,761,517 | 12,385,591 |  |  |
| DAM LSE Internal LBMP Energy Sales | 45\% | 44\% | 46\% | 47\% | 43\% | 48\% | 51\% | 53\% | 53\% | 50\% |  |  |
| DAM External TC LBMP Energy Sales | 4\% | 2\% | 1\% | 1\% | 2\% | 2\% | 1\% | 1\% | 1\% | 1\% |  |  |
| DAM Bilateral - Internal Bilaterals | 45\% | 47\% | 45\% | 45\% | 48\% | 43\% | 42\% | 40\% | 39\% | 43\% |  |  |
| DAM Bilateral - Import//Non-LBMP Market Bilaterals | 4\% | 5\% | 5\% | 5\% | 5\% | 5\% | 5\% | 5\% | 5\% | 4\% |  |  |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 2\% | 2\% | 2\% | 2\% | 2\% | 1\% | 1\% | 1\% | 1\% | 2\% |  |  |
| DAM Bilateral - Wheel Through Bilaterals | 0\% | 0\% | 0\% | 0\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% |  |  |
| Balancing Energy Market MWh | 699,813 | 282,553 | 70,320 | 152,622 | 271,842 | -115,536 | 131,233 | 560,816 | 171,381 | 237,512 |  |  |
| Balancing Energy LSE Internal LBMP Energy Sales | 56\% | 39\% | -111\% | -31\% | 28\% | -247\% | -100\% | 65\% | 7\% | 54\% |  |  |
| Balancing Energy External TC LBMP Energy Sales | 38\% | 46\% | 150\% | 118\% | 74\% | 141\% | 141\% | 29\% | 75\% | 53\% |  |  |
| Balancing Energy Bilateral - Internal Bilaterals | 8\% | 19\% | 68\% | 20\% | 10\% | 23\% | 53\% | 6\% | 18\% | 0\% |  |  |
| Balancing Energy Bilateral - Import//Non-LBMP Market Bilaterals | 0\% | 0\% | 0\% | 0\% | 0\% | 2\% | 0\% | 0\% | 0\% | 0\% |  |  |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 1\% | 5\% | 16\% | 8\% | 4\% | 8\% | 12\% | 2\% | 8\% | 9\% |  |  |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -2\% | -10\% | -24\% | -15\% | -15\% | -27\% | -6\% | -2\% | -8\% | -16\% |  |  |
| Transactions Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| LBMP | 51\% | 47\% | 48\% | 48\% | 46\% | 49\% | 51\% | 55\% | 55\% | 52\% |  |  |
| Internal Bilaterals | 43\% | 46\% | 45\% | 44\% | 47\% | 44\% | 42\% | 38\% | 38\% | 42\% |  |  |
| Import Bilaterals | 4\% | 5\% | 5\% | 5\% | 5\% | 5\% | 5\% | 5\% | 5\% | 4\% |  |  |
| Export Bilaterals | 2\% | 2\% | 2\% | 2\% | 2\% | 1\% | 1\% | 1\% | 1\% | 2\% |  |  |
| Wheels Through | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1\% | 1\% | 1\% | 1\% |  |  |
| Market Share of Total Load |  |  |  |  |  |  |  |  |  |  |  |  |
| Day Ahead Market | 95.4\% | 97.8\% | 99.5\% | 98.8\% | 97.8\% | 100.9\% | 99.1\% | 96.5\% | 98.7\% | 98.1\% |  |  |
| Balancing Energy + | 4.6\% | 2.2\% | 0.5\% | 1.2\% | 2.2\% | -0.9\% | 0.9\% | 3.5\% | 1.3\% | 1.9\% |  |  |
| Total MWH | 15,270,204 | 12,793,562 | 13,231,233 | 12,274,128 | 12,596,059 | 13,043,533 | 14,681,017 | 16,108,793 | 12,932,899 | 12,623,103 |  |  |
| Average Daily Energy Sendout/Month GWh | 470 | 447 | 422 | 400 | 396 | 427 | 469 | 511 | 425 | 400 |  |  |
| $\underline{2008}$ | January | February | March | April | May | June | July | August | September | October | November | December |
| Day Ahead Market MWh | 14,984,732 | 13,722,512 | 13,744,999 | 12,645,499 | 13,325,474 | 15,365,697 | 17,761,482 | 15,971,685 | 13,927,588 | 13,081,095 | 13,117,299 | 13,947,259 |
| DAM LSE Internal LBMP Energy Sales | 42\% | 42\% | 45\% | 48\% | 42\% | 45\% | 47\% | 45\% | 45\% | 44\% | 41\% | 44\% |
| DAM External TC LBMP Energy Sales | 9\% | 7\% | 5\% | 4\% | 6\% | 5\% | 8\% | 7\% | 4\% | 3\% | 5\% | 2\% |
| DAM Bilateral - Internal Bilaterals | 43\% | 43\% | 43\% | 40\% | 45\% | 43\% | 39\% | 42\% | 44\% | 46\% | 46\% | 47\% |
| DAM Bilateral - Import//Non-LBMP Market Bilaterals | 5\% | 5\% | 5\% | 5\% | 4\% | 4\% | 4\% | 4\% | 5\% | 4\% | 5\% | 5\% |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% |
| DAM Bilateral - Wheel Through Bilaterals | 0\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% | 0\% | 0\% |
| Balancing Energy Market MWh | 912,477 | 829,794 | 1,020,858 | 767,755 | 908,796 | 1,107,024 | 834,886 | 389,313 | 635,380 | 397,842 | 605,209 | 613,724 |
| Balancing Energy LSE Internal LBMP Energy Sales | 23\% | 50\% | 19\% | -3\% | 3\% | 35\% | 47\% | 45\% | 64\% | 29\% | 43\% | 50\% |
| Balancing Energy External TC LBMP Energy Sales | 68\% | 48\% | 78\% | 97\% | 98\% | 56\% | 53\% | 47\% | 36\% | 84\% | 64\% | 55\% |
| Balancing Energy Bilateral - Internal Bilaterals | 6\% | 1\% | 3\% | 4\% | -2\% | 5\% | 3\% | 6\% | 4\% | 7\% | 0\% | 1\% |
| Balancing Energy Bilateral - Import//Non-LBMP Market Bilaterals | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1\% | 0\% | 0\% |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | -1\% | 0\% | 0\% | 0\% | 1\% |
| Balancing Energy Bilateral - Wheel Through Bilaterals | 2\% | 1\% | 1\% | 2\% | 2\% | 5\% | -2\% | 3\% | -4\% | -20\% | -7\% | -6\% |
| Transactions Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| LBMP | 53\% | 52\% | 53\% | 55\% | 52\% | 53\% | 57\% | 53\% | 51\% | 49\% | 49\% | 49\% |
| Internal Bilaterals | 41\% | 41\% | 40\% | 38\% | 42\% | 40\% | 37\% | 41\% | 42\% | 45\% | 44\% | 45\% |
| Import Bilaterals | 5\% | 5\% | 4\% | 5\% | 4\% | 4\% | 4\% | 4\% | 5\% | 4\% | 5\% | 5\% |
| Export Bilaterals | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% |
| Wheels Through | 0\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% | 1\% | 0\% | 0\% | 0\% |
| Market Share of Total Load |  |  |  |  |  |  |  |  |  |  |  |  |
| Day Ahead Market | 94.3\% | 94.3\% | 93.1\% | 94.3\% | 93.6\% | 93.3\% | 95.5\% | 97.6\% | 95.6\% | 97.0\% | 95.6\% | 95.8\% |
| Balancing Energy + | 5.7\% | 5.7\% | 6.9\% | 5.7\% | 6.4\% | 6.7\% | 4.5\% | 2.4\% | 4.4\% | 3.0\% | 4.4\% | 4.2\% |
| Total MWH | 15,897,209 | 14,552,307 | 14,765,858 | 13,413,255 | 14,234,270 | 16,472,720 | 18,596,368 | 16,360,998 | 14,562,968 | 13,478,936 | 13,722,508 | 14,560,983 |
| Average Daily Energy Sendout/Month GWh | 456 | 455 | 432 | 406 | 403 | 499 | 541 | 488 | 461 | 412 | 424 | 452 |
| + Balancing Energy: Load(MW) purchased at Real Time LBMP. |  |  |  |  |  |  |  |  | Notes: Percent totals may not equal $100 \%$ due to rounding. Virtual Transactions are not reflected in this chart. |  |  |  |
| Market Monitoring <br> Prepared: 11/5/2009 11:45 |  |  |  | 4-D |  |  |  |  | Data reflects true-ups through March 2009. |  |  |  |


| DAY AHEAD LBMP |
| :---: |
| Price* |
| Standard Deviation |
| Load Weighted Price ** |
| RTC LBMP |
| Price * |
| Standard Deviation |
| Load Weighted Price ** |
| REAL TIME LBMP |
| Price * |
| Standard Deviation |
| Load Weighted Price ** |
| Average Daily Energy S |


| January | February | $\underline{\text { March }}$ |
| ---: | ---: | ---: |
| $\$ 70.53$ | $\$ 50.89$ | $\$ 43.34$ |
| $\$ 19.46$ | $\$ 13.06$ | $\$ 12.24$ |
| $\$ 72.36$ | $\$ 52.15$ | $\$ 44.64$ |
|  |  |  |
| $\$ 69.26$ | $\$ 51.46$ | $\$ 43.88$ |
| $\$ 23.37$ | $\$ 21.26$ | $\$ 20.38$ |
| $\$ 70.80$ | $\$ 52.72$ | $\$ 45.21$ |
|  |  |  |
| $\$ 68.14$ | $\$ 50.62$ | $\$ 43.73$ |
| $\$ 23.66$ | $\$ 20.30$ | $\$ 22.27$ |
| $\$ 69.80$ | $\$ 52.14$ | $\$ 45.36$ |
| 470 | 447 | 422 |

## NYISO Markets 2009 Energy Statistics

| DAY AHEAD LBMP |
| :--- |
| Price * |
| Standard Deviation |
| Load Weighted Price ** |
| RTC LBMP |
| Price * |
| Standard Deviation |
| Load Weighted Price ** |
| REAL TIME LBMP |
| Price * |
| Standard Deviation |
| Load Weighted Price ** |
| Average Daily Energy Sendout/Month GWh |


| April | May | June | July | August | September | October |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\$ 38.19$ | $\$ 36.13$ | $\$ 37.01$ | $\$ 37.93$ | $\$ 39.80$ | $\$ 30.27$ | $\$ 38.35$ |  |
| $\$ 9.26$ | $\$ 8.91$ | $\$ 10.07$ | $\$ 11.53$ | $\$ 13.37$ | $\$ 8.77$ | $\$ 11.41$ |  |
| $\$ 39.31$ | $\$ 37.38$ | $\$ 38.64$ | $\$ 39.88$ | $\$ 42.03$ | $\$ 31.48$ | $\$ 39.59$ |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $\$ 37.06$ | $\$ 36.18$ | $\$ 35.15$ | $\$ 35.97$ | $\$ 40.81$ | $\$ 30.04$ | $\$ 38.87$ |  |
| $\$ 15.20$ | $\$ 12.48$ | $\$ 20.07$ | $\$ 17.38$ | $\$ 23.89$ | $\$ 12.77$ | $\$ 24.97$ |  |
| $\$ 38.14$ | $\$ 37.16$ | $\$ 36.57$ | $\$ 37.29$ | $\$ 42.97$ | $\$ 31.04$ | $\$ 40.22$ |  |
|  |  |  |  |  |  |  |  |
| $\$ 37.72$ | $\$ 35.11$ | $\$ 34.92$ | $\$ 34.13$ | $\$ 40.40$ | $\$ 30.36$ | $\$ 38.46$ |  |
| $\$ 20.84$ | $\$ 19.81$ | $\$ 29.81$ | $\$ 23.16$ | $\$ 25.84$ | $\$ 16.66$ | $\$ 28.61$ |  |
| $\$ 39.13$ | $\$ 36.48$ | $\$ 36.73$ | $\$ 35.82$ | $\$ 43.29$ | $\$ 31.66$ | $\$ 40.19$ |  |
|  |  |  |  |  |  |  |  |
| 400 | 396 | 427 | 469 | 511 | 425 | 400 |  |

## NYISO Markets 2008 Energy Statistics

| January | February | March | April | May | June | July | August | September | October | November | December |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$83.07 | \$82.66 | \$83.11 | \$89.77 | \$89.35 | \$121.83 | \$125.89 | \$81.02 | \$74.07 | \$61.37 | \$60.60 | \$60.02 |
| \$28.43 | \$22.45 | \$17.97 | \$19.87 | \$23.21 | \$41.13 | \$38.25 | \$21.91 | \$17.78 | \$13.20 | \$13.04 | \$16.61 |
| \$86.14 | \$85.14 | \$85.09 | \$92.37 | \$92.48 | \$128.61 | \$131.60 | \$84.41 | \$76.77 | \$63.06 | \$62.23 | \$61.76 |
| \$79.46 | \$85.91 | \$83.81 | \$90.48 | \$96.21 | \$120.88 | \$119.78 | \$80.23 | \$75.23 | \$60.39 | \$61.67 | \$60.24 |
| \$35.00 | \$60.79 | \$34.42 | \$31.97 | \$61.32 | \$64.44 | \$53.84 | \$39.90 | \$49.92 | \$26.42 | \$16.96 | \$31.25 |
| \$81.98 | \$88.30 | \$85.82 | \$92.22 | \$99.59 | \$127.40 | \$123.71 | \$82.76 | \$78.66 | \$61.95 | \$63.08 | \$62.14 |
| \$79.00 | \$85.89 | \$83.51 | \$89.37 | \$93.72 | \$120.05 | \$118.37 | \$77.34 | \$72.47 | \$57.30 | \$60.24 | \$59.55 |
| \$38.83 | \$49.87 | \$33.64 | \$31.14 | \$59.68 | \$80.00 | \$49.42 | \$33.97 | \$56.87 | \$22.16 | \$17.79 | \$31.29 |
| \$81.97 | \$88.72 | \$85.68 | \$91.31 | \$97.50 | \$128.95 | \$122.64 | \$80.09 | \$77.60 | \$58.81 | \$61.91 | \$62.19 |
| 456 | 455 | 432 | 406 | 403 | 499 | 541 | 488 | 461 | 412 | 424 | 452 |

* Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.


## NYISO Monthly Average Internal LBMPs

2008-2009


|  | October 2009 Zonal LBMP Statistics for NYISO (\$/MWh) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { WEST } \\ & \text { Zone A } \end{aligned}$ | GENESEE Zone B | NORTH <br> Zone D | CENTRAL Zone C | MOHAWK VALLEY Zone E | CAPITAL Zone F | HUDSON VALLEY Zone G | MILLWOOD Zone H | DUNWOODIE Zone I | NEW YORK <br> CITY <br> Zone J | LONG <br> ISLAND <br> Zone K |
| DAY AHEAD LBMP |  |  |  |  |  |  |  |  |  |  |  |
| Unweighted Price * | 30.50 | 31.65 | 27.06 | 32.50 | 33.10 | 39.76 | 39.13 | 39.27 | 39.34 | 41.91 | 45.20 |
| Standard Deviation | 8.98 | 9.62 | 10.10 | 9.81 | 10.22 | 11.43 | 11.28 | 11.36 | 11.37 | 13.57 | 13.78 |
| RTC LBMP |  |  |  |  |  |  |  |  |  |  |  |
| Unweighted Price * | 32.82 | 33.95 | 31.00 | 34.73 | 35.36 | 39.51 | 39.67 | 39.73 | 39.78 | 41.43 | 44.03 |
| Standard Deviation | 21.75 | 22.76 | 21.65 | 23.29 | 23.93 | 26.78 | 26.15 | 26.20 | 26.21 | 26.88 | 28.85 |
| REAL TIME LBMP |  |  |  |  |  |  |  |  |  |  |  |
| Unweighted Price * | 31.28 | 32.31 | 29.25 | 33.08 | 33.64 | 39.24 | 38.98 | 39.06 | 39.08 | 41.52 | 45.98 |
| Standard Deviation | 28.01 | 29.62 | 30.57 | 29.96 | 31.19 | 32.30 | 30.10 | 30.18 | 30.21 | 31.81 | 37.09 |
|  |  | HYDRO | HYDRO |  |  | CROSS |  |  |  |  |  |
|  | ONTARIO | QUEBEC | QUEBEC |  | NEW | SOUND | NORTHPORT- |  |  |  |  |
|  | IESO | (Wheel) | (Import/Export) | PJM | ENGLAND | CABLE | NORWALK | NEPTUNE |  |  |  |
|  |  |  |  |  |  | Controllable | Controllable | Controllable |  |  |  |
|  | Zone 0 | Zone M | Zone M | Zone P | Zone N | Line | Line | Line |  |  |  |
| DAY AHEAD LBMP |  |  |  |  |  |  |  |  |  |  |  |
| Unweighted Price * | 29.70 | 28.14 | 27.81 | 35.09 | 39.36 | 44.76 | 43.03 | 44.56 |  |  |  |
| Standard Deviation | 8.55 | 11.78 | 12.28 | 10.28 | 11.08 | 13.64 | 12.86 | 13.51 |  |  |  |
| RTC LBMP |  |  |  |  |  |  |  |  |  |  |  |
| Unweighted Price * | 30.20 | 24.96 | 24.09 | 34.22 | 36.46 | 40.69 | 40.12 | 40.51 |  |  |  |
| Standard Deviation | 8.42 | 59.09 | 59.57 | 8.92 | 9.92 | 12.72 | 12.63 | 12.65 |  |  |  |
| REAL TIME LBMP |  |  |  |  |  |  |  |  |  |  |  |
| Unweighted Price * | 31.42 | 30.60 | 29.08 | 34.19 | 38.75 | 45.35 | 44.64 | 45.21 |  |  |  |
| Standard Deviation | 22.98 | 30.02 | 28.63 | 23.79 | 28.15 | 35.02 | 34.35 | 34.92 |  |  |  |

* Straight LBMP averages

Market Monitoring
Prepared 11/5/2009 13:30







## External Comparison ISO-New England




## External Comparison PJM




## External Comparison Ontario IESO




Notes: Exchange factor used for October 2009 was .94 to US \$
HOEP: Hourly Ontario Energy Price
Pre-Dispatch: Projected Energy Price

External Controllable Line: Cross Sound Cable (New England)



Note:
ISO-NE Forecast is an advisory posting @ 18:00 day before.
The DAM and R/T prices at the Shorham138 99 interface are used for ISO-NE.
The DAM and R/T prices at the CSC interface are used for NYISO.

External Controllable Line: Northport - Norwalk (New England)



Note:
ISO-NE Forecast is an advisory posting @ 18:00 day before.
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
The DAM and R/T prices at the 1385 interface are used for NYISO.



## External Comparison Hydro-Quebec




Note:
Hydro-Quebec Prices are unavailable.
Dennison Scheduled Line Data available beginning 10/1/2008.

## NYISO Real Time Price Correction Statistics

| 2009 |  | January | February | March | April | May | June | July | August | September | October | November | December |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hour Corrections |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of hours with corrections | in the month | 2 | 6 | 2 | 0 | 2 | 6 | 0 | 2 | 3 | 0 |  |  |
| Number of hours | in the month | 744 | 672 | 744 | 720 | 744 | 720 | 744 | 744 | 720 | 744 |  |  |
| \% of hours with corrections | in the month | 0.27\% | 0.89\% | 0.27\% | 0.00\% | 0.27\% | 0.83\% | 0.00\% | 0.27\% | 0.42\% | 0.00\% |  |  |
| \% of hours with corrections | year-to-date | 0.27\% | 0.56\% | 0.46\% | 0.35\% | 0.33\% | 0.41\% | 0.35\% | 0.34\% | 0.35\% | 0.32\% |  |  |
| Interval Corrections |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of intervals corrected | in the month | 4 | 19 | 4 | 0 | 14 | 14 | 0 | 14 | 36 | 0 |  |  |
| Number of intervals | in the month | 8,966 | 8,082 | 8,933 | 8,639 | 8,941 | 8,655 | 8,947 | 8,910 | 8,656 | 8,933 |  |  |
| \% of intervals corrected | in the month | 0.04\% | 0.24\% | 0.04\% | 0.00\% | 0.16\% | 0.16\% | 0.00\% | 0.16\% | 0.42\% | 0.00\% |  |  |
| \% of intervals corrected | year-to-date | 0.04\% | 0.13\% | 0.10\% | 0.08\% | 0.09\% | 0.11\% | 0.09\% | 0.10\% | 0.13\% | 0.12\% |  |  |
| Hours Reserved |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of hours reserved | in the month | 4 | 8 | 9 | 0 | 6 | 11 | 1 | 4 | 3 | 1 |  |  |
| Number of hours | in the month | 744 | 672 | 744 | 720 | 744 | 720 | 744 | 744 | 720 | 744 |  |  |
| \% of hours reserved | in the month | 0.54\% | 1.19\% | 1.21\% | 0.00\% | 0.81\% | 1.53\% | 0.13\% | 0.54\% | 0.42\% | 0.13\% |  |  |
| \% of hours reserved | year-to-date | 0.54\% | 0.85\% | 0.97\% | 0.73\% | 0.75\% | 0.87\% | 0.77\% | 0.74\% | 0.70\% | 0.64\% |  |  |
| Days to Correction* |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg. number of days to correction | in the month | 1.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 1.50 | 0.00 |  |  |
| Avg. number of days to correction | year-to-date | 1.00 | 1.14 | 0.89 | 0.89 | 0.73 | 0.69 | 0.69 | 0.65 | 0.74 | 0.74 |  |  |
| Days Without Corrections |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Days without corrections | in the month | 29 | 23 | 29 | 30 | 29 | 25 | 31 | 30 | 28 | 31 |  |  |
| Days without corrections | year-to-date | 29 | 52 | 81 | 111 | 140 | 165 | 196 | 226 | 254 | 285 |  |  |
| $\underline{2008}$ |  | January | February | March | April | May | June | July | August | September | October | November | December |
| Hour Corrections |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of hours with corrections | in the month | 7 | 4 | 7 | 4 | 4 | 3 | 5 | 5 | 2 | 17 | 2 | 3 |
| Number of hours | in the month | 744 | 696 | 744 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 720 | 744 |
| \% of hours with corrections | in the month | 0.94\% | 0.57\% | 0.94\% | 0.56\% | 0.54\% | 0.42\% | 0.67\% | 0.67\% | 0.28\% | 2.28\% | 0.28\% | 0.40\% |
| \% of hours with corrections | year-to-date | 0.94\% | 0.76\% | 0.82\% | 0.76\% | 0.71\% | 0.66\% | 0.67\% | 0.67\% | 0.62\% | 0.79\% | 0.75\% | 0.72\% |
| Interval Corrections |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of intervals corrected | in the month | 63 | 5 | 12 | 5 | 19 | 3 | 15 | 10 | 2 | 139 | 13 | 20 |
| Number of intervals | in the month | 8,956 | 8,387 | 8,939 | 8,650 | 8,989 | 8,643 | 8,993 | 8,995 | 8,682 | 8,971 | 8,689 | 8,979 |
| \% of intervals corrected | in the month | 0.70\% | 0.06\% | 0.13\% | 0.06\% | 0.21\% | 0.03\% | 0.17\% | 0.11\% | 0.02\% | 1.55\% | 0.15\% | 0.22\% |
| \% of intervals corrected | year-to-date | 0.70\% | 0.39\% | 0.30\% | 0.24\% | 0.24\% | 0.20\% | 0.20\% | 0.19\% | 0.17\% | 0.31\% | 0.30\% | 0.29\% |
| Hours Reserved |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of hours reserved | in the month | 12 | 6 | 8 | 7 | 9 | 10 | 6 | 8 | 4 | 19 | 2 | 3 |
| Number of hours | in the month | 744 | 696 | 744 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 720 | 744 |
| \% of hours reserved | in the month | 1.61\% | 0.86\% | 1.08\% | 0.97\% | 1.21\% | 1.39\% | 0.81\% | 1.08\% | 0.56\% | 2.55\% | 0.28\% | 0.40\% |
| \% of hours reserved | year-to-date | 1.61\% | 1.25\% | 1.19\% | 1.14\% | 1.15\% | 1.19\% | 1.13\% | 1.13\% | 1.06\% | 1.22\% | 1.13\% | 1.07\% |
| Days to Correction * |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Avg. number of days to correction | in the month | 1.00 | 1.33 | 1.20 | 0.50 | 0.50 | 1.00 | 1.33 | 1.25 | 0.50 | 0.50 | 0.00 | 0.50 |
| Avg. number of days to correction | year-to-date | 1.00 | 1.17 | 1.18 | 1.00 | 0.89 | 0.91 | 0.96 | 1.00 | 0.97 | 0.97 | 0.84 | 0.82 |
| Days Without Corrections |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Days without corrections | in the month | 28 | 26 | 26 | 26 | 27 | 27 | 28 | 27 | 28 | 26 | 28 | 28 |
| Days without corrections | year-to-date | 28 | 54 | 80 | 106 | 133 | 160 | 188 | 215 | 243 | 269 | 297 | 325 |

* Calendar days from reservation date.



[^1]


## Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2009

|  |  | Virtual Load Bid |  | Virtual Supply Bid |  |  |  | Virtual Load Bid |  | Virtual Supply Bid |  |  |  | Virtual Load Bid |  | Virtual Supply Bid |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled | Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled | Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled |
| WEST | Jan-09 | 5,980 | 1,802 | 5,787 | 1,732 | MHK VL | Jan-09 | 839 | 852 | 2,335 | 568 | DUNWOD | Jan-09 | 3,134 | 1,616 | 1,523 | 1,424 |
|  | Feb-09 | 6,395 | 2,412 | 6,036 | 3,686 |  | Feb-09 | 1,336 | 857 | 2,786 | 832 |  | Feb-09 | 2,013 | 1,237 | 1,521 | 1,200 |
|  | Mar-09 | 3,226 | 3,562 | 9,608 | 4,252 |  | Mar-09 | 777 | 1,488 | 3,013 | 1,271 |  | Mar-09 | 1,998 | 838 | 2,951 | 2,733 |
|  | Apr-09 | 3,835 | 5,259 | 11,561 | 5,872 |  | Apr-09 | 328 | 1,461 | 3,065 | 1,353 |  | Apr-09 | 3,349 | 645 | 2,795 | 2,170 |
|  | May-09 | 4,211 | 888 | 8,191 | 5,330 |  | May-09 | 758 | 1,607 | 3,090 | 1,197 |  | May-09 | 4,549 | 594 | 1,734 | 1,113 |
|  | Jun-09 | 4,918 | 714 | 9,883 | 1,292 |  | Jun-09 | 316 | 1,324 | 1,821 | 1,265 |  | Jun-09 | 4,453 | 730 | 1,149 | 869 |
|  | Jul-09 | 4,180 | 372 | 11,818 | 2,339 |  | Jul-09 | 195 | 1,175 | 3,066 | 1,181 |  | Jul-09 | 6,956 | 2,227 | 867 | 402 |
|  | Aug-09 | 2,988 | 744 | 9,207 | 3,120 |  | Aug-09 | 684 | 1,094 | 3,171 | 843 |  | Aug-09 | 5,910 | 1,210 | 1,051 | 609 |
|  | Sep-09 | 4,263 | 545 | 7,858 | 1,020 |  | Sep-09 | 1,692 | 1,195 | 1,627 | 919 |  | Sep-09 | 1,695 | 614 | 2,779 | 2,072 |
|  | Oct-09 | 4,798 | 564 | 9,154 | 623 |  | Oct-09 | 768 | 938 | 2,593 | 881 |  | Oct-09 | 1,261 | 774 | 2,324 | 797 |
|  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |
|  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |
| GENESE | Jan-09 | 2,540 | 1,161 | 8,332 | 1,092 | CAPITL | Jan-09 | 4,749 | 3,352 | 1,706 | 2,068 | N.Y.C. | Jan-09 | 9,649 | 6,433 | 1,814 | 5,865 |
|  | Feb-09 | 2,601 | 1,167 | 9,082 | 1,094 |  | Feb-09 | 5,637 | 2,956 | 1,627 | 2,652 |  | Feb-09 | 6,464 | 3,737 | 3,576 | 8,570 |
|  | Mar-09 | 1,673 | 685 | 10,131 | 722 |  | Mar-09 | 4,408 | 3,497 | 1,297 | 2,837 |  | Mar-09 | 9,753 | 2,920 | 673 | 7,257 |
|  | Apr-09 | 1,079 | 689 | 10,441 | 729 |  | Apr-09 | 3,136 | 3,706 | 1,859 | 3,008 |  | Apr-09 | 10,044 | 4,076 | 494 | 7,452 |
|  | May-09 | 1,586 | 529 | 7,483 | 510 |  | May-09 | 2,572 | 2,804 | 2,230 | 1,854 |  | May-09 | 10,312 | 6,786 | 768 | 6,862 |
|  | Jun-09 | 1,147 | 500 | 9,053 | 616 |  | Jun-09 | 1,691 | 2,981 | 4,784 | 1,775 |  | Jun-09 | 12,119 | 4,428 | 2,616 | 6,314 |
|  | Jul-09 | 566 | 307 | 9,108 | 418 |  | Jul-09 | 1,950 | 3,288 | 6,852 | 2,476 |  | Jul-09 | 14,220 | 3,773 | 4,515 | 6,390 |
|  | Aug-09 | 1,177 | 220 | 7,776 | 271 |  | Aug-09 | 2,089 | 3,212 | 8,211 | 2,553 |  | Aug-09 | 13,107 | 2,685 | 4,710 | 7,661 |
|  | Sep-09 | 1,615 | 312 | 4,449 | 519 |  | Sep-09 | 2,856 | 3,344 | 5,190 | 2,492 |  | Sep-09 | 10,554 | 1,630 | 2,174 | 7,891 |
|  | Oct-09 | 2,030 | 807 | 9,593 | 1,120 |  | Oct-09 | 4,525 | 3,055 | 2,968 | 2,108 |  | Oct-09 | 8,981 | 3,829 | 1,784 | 7,084 |
|  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |
|  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |
| NORTH | Jan-09 | 398 | 1,277 | 5,428 | 757 | HUD VL | Jan-09 | 1,572 | 1,199 | 5,365 | 1,875 | LONGIL | Jan-09 | 5,026 | 2,640 | 1,654 | 806 |
|  | Feb-09 | 125 | 983 | 7,684 | 1,481 |  | Feb-09 | 2,721 | 2,126 | 7,211 | 3,506 |  | Feb-09 | 4,191 | 1,141 | 1,357 | 1,164 |
|  | Mar-09 | 258 | 1,482 | 9,019 | 2,142 |  | Mar-09 | 2,810 | 1,179 | 4,102 | 978 |  | Mar-09 | 3,286 | 1,742 | 1,225 | 1,266 |
|  | Apr-09 | 842 | 1,480 | 8,515 | 3,032 |  | Apr-09 | 3,516 | 935 | 3,850 | 1,293 |  | Apr-09 | 5,075 | 2,061 | 833 | 1,486 |
|  | May-09 | 319 | 737 | 11,818 | 3,910 |  | May-09 | 2,901 | 1,090 | 4,096 | 601 |  | May-09 | 6,332 | 2,230 | 489 | 842 |
|  | Jun-09 | 1,188 | 922 | 14,564 | 3,919 |  | Jun-09 | 2,828 | 1,085 | 6,286 | 1,088 |  | Jun-09 | 5,280 | 1,765 | 928 | 486 |
|  | Jul-09 | 1,256 | 1,159 | 13,412 | 3,691 |  | Jul-09 | 7,432 | 943 | 5,538 | 673 |  | Jul-09 | 5,173 | 1,226 | 649 | 1,008 |
|  | Aug-09 | 1,787 | 1,125 | 12,088 | 3,142 |  | Aug-09 | 7,310 | 1,504 | 2,330 | 1,365 |  | Aug-09 | 4,384 | 1,010 | 977 | 1,068 |
|  | Sep-09 | 3,451 | 1,543 | 12,976 | 2,566 |  | Sep-09 | 3,021 | 1,650 | 3,185 | 1,362 |  | Sep-09 | 4,675 | 1,394 | 1,913 | 1,283 |
|  | Oct-09 | 2,803 | 2,297 | 9,737 | 3,458 |  | Oct-09 | 2,942 | 2,622 | 4,088 | 2,093 |  | Oct-09 | 5,456 | 1,804 | 1,940 | 510 |
|  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |
|  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |
| CENTRL | Jan-09 | 2,532 | 1,128 | 1,935 | 796 | MILLWD | Jan-09 | 435 | 900 | 3,633 | 1,114 | NYISO | Jan-09 | 36,855 | 22,359 | 39,512 | 18,097 |
|  | Feb-09 | 3,242 | 1,093 | 1,656 | 983 |  | Feb-09 | 301 | 980 | 1,686 | 924 |  | Feb-09 | 35,028 | 18,690 | 44,221 | 26,093 |
|  | Mar-09 | 3,132 | 1,873 | 1,641 | 1,402 |  | Mar-09 | 556 | 759 | 1,541 | 654 |  | Mar-09 | 31,876 | 20,023 | 45,201 | 25,514 |
|  | Apr-09 | 1,099 | 1,742 | 1,685 | 1,496 |  | Apr-09 | 406 | 652 | 3,583 | 592 |  | Apr-09 | 32,708 | 22,708 | 48,680 | 28,482 |
|  | May-09 | 1,469 | 1,375 | 1,192 | 1,480 |  | May-09 | 945 | 517 | 3,178 | 533 |  | May-09 | 35,955 | 19,156 | 44,270 | 24,232 |
|  | Jun-09 | 1,912 | 1,541 | 2,015 | 2,013 |  | Jun-09 | 606 | 557 | 2,902 | 478 |  | Jun-09 | 36,458 | 16,546 | 56,002 | 20,115 |
|  | Jul-09 | 576 | 1,422 | 3,326 | 2,297 |  | Jul-09 | 727 | 399 | 2,487 | 370 |  | Jul-09 | 43,230 | 16,291 | 61,637 | 21,246 |
|  | Aug-09 | 843 | 1,415 | 3,439 | 1,197 |  | Aug-09 | 1,264 | 268 | 1,740 | 202 |  | Aug-09 | 41,544 | 14,488 | 54,699 | 22,031 |
|  | Sep-09 | 1,426 | 1,690 | 1,894 | 1,212 |  | Sep-09 | 586 | 338 | 1,165 | 257 |  | Sep-09 | 35,833 | 14,252 | 45,212 | 21,593 |
|  | Oct-09 | 1,381 | 1,273 | 2,711 | 1,192 |  | Oct-09 | 521 | 251 | 1,015 | 239 |  | Oct-09 | 35,463 | 18,214 | 47,907 | 20,105 |
|  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |  | Nov-09 |  |  |  |  |
|  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |  | Dec-09 |  |  |  |  |






| $\underline{2009}$ | Januar |
| :---: | :---: |
| Day Ahead Market |  |
| 10 Min Spin East | 5.6 |
| 10 Min Spin West | 4.81 |
| 10 Min Non Synch East | 2.7 |
| 10 Min Non Synch West | 2.0 |
| 30 Min East | 0.92 |
| 30 Min West | 0.92 |
| Regulation East | 49.0 |
| Regulation West | 49.0 |
| RTC Market |  |
| 10 Min Spin East | 2. |
| 10 Min Spin West | 2.2 |
| 10 Min Non Synch East | 0.00 |
| 10 Min Non Synch West | 0.0 |
| 30 Min East | 0.00 |
| 30 Min West | 0.00 |
| Regulation East | 48.98 |
| Regulation West | 48.98 |
| Real Time Market |  |
| 10 Min Spin East | 2.5 |
| 10 Min Spin West | 2. |
| 10 Min Non Synch East | 0.03 |
| 10 Min Non Synch West | 0.03 |
| 30 Min East | 0.0 |
| 30 Min West | 0.00 |
| Regulation East | 49.19 |
| Regulation West | 49.1 |
| $\underline{2008}$ January |  |
| Day Ahead Market |  |
| 10 Min Spin East | 11.7 |
| 10 Min Spin West | 8. |
| 10 Min Non Synch East | 2.36 |
| 10 Min Non Synch West | 1.8 |
| 30 Min East | 1.7 |
| 30 Min West | 1.7 |
| Regulation East | 64.8 |
| Regulation West | 64.8 |
| RTC Market |  |
| 10 Min Spin East | 5.2 |
| 10 Min Spin West | 3.5 |
| 10 Min Non Synch East | 0.65 |
| 10 Min Non Synch West | 0.0 |
| 30 Min East | 0.00 |
| 30 Min West | 0.00 |
| Regulation East | 62.09 |
| Regulation West | 62.09 |
| Real Time Market |  |
| 10 Min Spin East | 5.12 |
| 10 Min Spin West | 3.45 |
| 10 Min Non Synch East | 0.83 |
| 10 Min Non Synch West | 0.02 |
| 30 Min East | 0.00 |
| 30 Min West | 0.00 |
| Regulation East | 62.33 |
| Regulation West | 62.33 |

Market Monitoring
Prepared 11/5/2009 14:30

| February | March | April | May | June | July | August | September | October | November | December |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7.74 | 6.54 | 4.66 | 5.53 | 4.50 | 4.84 | 3.76 | 4.54 | 5.90 |  |  |
| 5.48 | 4.62 | 3.94 | 4.32 | 4.05 | 4.08 | 3.25 | 3.88 | 4.25 |  |  |
| 3.13 | 2.88 | 2.09 | 3.03 | 2.31 | 2.86 | 2.56 | 2.42 | 1.74 |  |  |
| 1.58 | 1.45 | 1.46 | 1.82 | 1.87 | 2.11 | 2.05 | 1.76 | 0.73 |  |  |
| 1.12 | 0.63 | 0.50 | 0.43 | 0.43 | 0.37 | 0.30 | 0.51 | 0.41 |  |  |
| 1.12 | 0.63 | 0.50 | 0.43 | 0.43 | 0.37 | 0.30 | 0.51 | 0.41 |  |  |
| 46.62 | 48.92 | 38.71 | 32.52 | 35.37 | 29.59 | 27.55 | 28.63 | 35.99 |  |  |
| 46.62 | 48.92 | 38.71 | 32.52 | 35.37 | 29.59 | 27.55 | 28.63 | 35.99 |  |  |
| 1.44 | 2.43 | 0.97 | 1.12 | 0.96 | 1.41 | 1.68 | 0.79 | 3.38 |  |  |
| 1.35 | 2.09 | 0.70 | 1.10 | 0.91 | 1.13 | 0.57 | 0.71 | 2.90 |  |  |
| 0.08 | 0.05 | 0.30 | 0.00 | 0.00 | 0.27 | 1.06 | 0.00 | 0.00 |  |  |
| 0.04 | 0.05 | 0.10 | 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 |  |  |
| 45.76 | 45.90 | 33.49 | 32.80 | 36.17 | 30.59 | 27.12 | 30.14 | 36.24 |  |  |
| 45.76 | 45.90 | 33.49 | 32.80 | 36.17 | 30.59 | 27.12 | 30.23 | 36.24 |  |  |
| 1.65 | 2.49 | 1.55 | 1.73 | 2.06 | 1.65 | 2.26 | 1.32 | 4.01 |  |  |
| 1.43 | 2.09 | 1.01 | 1.70 | 2.02 | 1.33 | 0.48 | 1.25 | 3.62 |  |  |
| 0.22 | 0.10 | 0.69 | 0.00 | 0.00 | 0.31 | 1.77 | 0.00 | 0.00 |  |  |
| 0.05 | 0.05 | 0.19 | 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 | 0.00 |  |  |
| 45.95 | 46.27 | 34.17 | 33.71 | 38.05 | 31.54 | 27.27 | 31.26 | 37.93 |  |  |
| 45.95 | 46.27 | 34.17 | 33.71 | 38.05 | 31.54 | 27.27 | 31.26 | 37.93 |  |  |
| February | March | April | May | June | July | August | September | October | November | December |
| 17.59 | 16.98 | 15.66 | 11.07 | 8.68 | 7.96 | 6.06 | 6.97 | 7.50 | 5.57 | 6.14 |
| 8.86 | 9.45 | 6.61 | 5.35 | 4.97 | 4.96 | 4.72 | 5.33 | 5.54 | 4.83 | 5.35 |
| 4.26 | 3.04 | 2.46 | 2.69 | 3.93 | 4.18 | 3.16 | 3.09 | 3.18 | 2.46 | 2.14 |
| 2.16 | 2.16 | 1.24 | 1.14 | 1.73 | 2.20 | 1.99 | 1.65 | 1.34 | 1.74 | 1.51 |
| 2.07 | 2.16 | 1.21 | 0.93 | 0.61 | 0.57 | 0.54 | 0.62 | 0.70 | 0.79 | 0.82 |
| 2.07 | 2.16 | 1.21 | 0.93 | 0.61 | 0.57 | 0.54 | 0.62 | 0.70 | 0.79 | 0.82 |
| 71.51 | 64.19 | 61.08 | 61.80 | 66.77 | 60.83 | 58.82 | 58.34 | 50.73 | 48.94 | 46.34 |
| 71.51 | 64.19 | 61.08 | 61.80 | 66.77 | 60.83 | 58.82 | 58.34 | 50.73 | 48.94 | 46.34 |
| 13.13 | 10.37 | 7.80 | 8.34 | 6.04 | 1.95 | 0.80 | 4.33 | 1.72 | 1.89 | 3.34 |
| 11.86 | 9.83 | 5.61 | 2.89 | 1.71 | 1.09 | 0.09 | 2.76 | 1.39 | 1.80 | 2.39 |
| 1.40 | 0.02 | 0.49 | 3.74 | 4.62 | 1.05 | 0.70 | 1.56 | 0.00 | 0.00 | 0.80 |
| 0.79 | 0.00 | 0.12 | 0.04 | 0.56 | 0.21 | 0.00 | 0.35 | 0.00 | 0.00 | 0.17 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71.26 | 63.30 | 58.35 | 59.84 | 59.38 | 48.94 | 55.11 | 57.78 | 49.85 | 47.11 | 46.22 |
| 71.26 | 63.30 | 58.35 | 59.84 | 59.38 | 48.94 | 55.11 | 57.78 | 49.85 | 47.11 | 46.22 |
| 14.30 | 9.86 | 7.48 | 7.19 | 7.35 | 1.88 | 0.87 | 3.99 | 0.83 | 1.96 | 3.93 |
| 11.40 | 9.27 | 5.16 | 2.45 | 1.73 | 1.19 | 0.15 | 2.33 | 0.62 | 1.90 | 3.05 |
| 3.86 | 0.10 | 0.79 | 3.07 | 6.17 | 1.05 | 0.70 | 1.89 | 0.00 | 0.00 | 0.77 |
| 1.49 | 0.00 | 0.13 | 0.01 | 0.88 | 0.37 | 0.00 | 0.49 | 0.00 | 0.00 | 0.17 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 |
| 74.53 | 63.09 | 57.71 | 58.83 | 60.07 | 49.61 | 55.50 | 58.60 | 49.69 | 47.61 | 47.42 |
| 74.53 | 63.09 | 57.71 | 58.83 | 60.07 | 49.61 | 55.50 | 58.60 | 49.69 | 47.61 | 47.42 |





[^2]15:00
4-AG


## NYISO LBMP ZONES



## Billing Codes for Chart 4-C

| Chart 4-C Category Name | Billing Code | Billing Category Name |
| :---: | :---: | :---: |
| Bid Production Cost Guarantee Balancing | 81203 | Balancing NYISO Bid Production Cost Guarantee - Internal Units |
| Bid Production Cost Guarantee Balancing | 81204 | Balancing NYISO Bid Production Cost Guarantee - External Units |
| Bid Production Cost Guarantee Balancing | 81205 | Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports |
| Bid Production Cost Guarantee Balancing | 81208 | Balancing NYISO Bid Production Cost Guarantee - Internal Units |
| Bid Production Cost Guarantee Balancing | 81209 | Balancing NYISO Bid Production Cost Guarantee - External Units |
| Bid Production Cost Guarantee Balancing | 81213 | Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports |
| Bid Production Cost Guarantee DAM | 81201 | DAM NYISO Bid Production Cost Guarantee - Internal Units |
| Bid Production Cost Guarantee DAM | 81202 | DAM NYISO Bid Production Cost Guarantee - External Units |
| Bid Production Cost Guarantee DAM | 81206 | DAM NYISO Bid Production Cost Guarantee - Internal Units |
| Bid Production Cost Guarantee DAM | 81207 | DAM NYISO Bid Production Cost Guarantee - External Units |
| Bid Production Cost Guarantee DAM Virtual | 81501 | DAM Virtual Bid Production Cost Guarantee |
| DAM Contract Balancing | 81315 | DAM Contract Balancing |
| DAM Contract Balancing | 81317 | DAM Contract Balancing |
| Local Reliability Balancing | 81002 | Balancing Local Reliability Bid Production Cost Guarantee |
| Local Reliability Balancing | 83901 | Margin Restoration (MOB) Revenue |
| Local Reliability DAM | 81001 | DAM Local Reliability Bid Production Cost Guarantee |
| NYISO Cost of Operations | 80901 | NYISO Cost Of Operations |
| NYISO Cost of Operations | 80902 | NYISO Cost Of Operations |
| NYISO Cost of Operations | 83501 | NYISO Cost Of Operations |
| NYISO Cost of Operations | 83502 | NYISO Cost Of Operations |
| Residuals Balancing | 81302 | Balancing Market Energy Residual |
| Residuals Balancing | 81304 | Balancing Market Loss Residual |
| Residuals Balancing | 81305 | Balancing Market Congestion Balancing |
| Residuals Balancing | 81306 | Emergency Energy Purchases |
| Residuals Balancing | 81307 | Emergency Energy Sales |
| Residuals Balancing | 81309 | Balancing Market Energy Residual |
| Residuals Balancing | 81311 | Balancing Market Loss Residual |
| Residuals Balancing | 81312 | Balancing Market Congestion Balancing |
| Residuals Balancing | 81313 | Emergency Energy Purchases |
| Residuals Balancing | 81314 | Emergency Energy Sales |
| Residuals DAM | 81301 | Day Ahead Market Energy Residual |
| Residuals DAM | 81303 | Day Ahead Market Loss Residual |
| Residuals DAM | 81308 | Day Ahead Market Energy Residual |
| Residuals DAM | 81310 | Day Ahead Market Loss Residual |

All reliability metric performances are normal. Frequency threshold exceedences primarily attributed to interconnection system events outside the NYISO.


All reliability metric performances are normal.


Control Performance


## CPS-2

CPS Limit
CPS-1

No excessive forecasting errors observed.


## Definitions

## Load Forecast Error

Absolute value of the difference between the hourly average actual load demand and the average 60-minute forecast load demand. Average Hourly Error \% - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

## Wind Forecast Error:

Absolute value of the difference between the hourly average actual wind generation and the average 60-minute forecast wind generation Wind Nameplate Capacity - Maximum value of installed NYCA wind generator capacity.





## Energy Marketplace Product Enhancements

Status: The first phase of this multi-phase project was successfully deployed into production in J anuary 2007; the second phase was deployed on schedule in October 2007. The features that were deployed include the replacement of the load bidding and virtual bidding forms and upload / download templates. Phase 3 was implemented in two deployments during 2008, resulting in the successful migration of the generation bidding pages and templates onto the new architecture. The project is scheduled to conclude in 2009 with two deployments planned to complete work on MIS

MIS Enhancements:

Trading Hubs (F.K.A. Netting of BiLaterals)
echnologies Administrative functions (Phase 4) as well as data model improvements (Phase 5). Phase 4 was successfully deployed in March. This project is complete.

Deliverables: This project will upgrade the web-based application structure to replace overlapping applications by allowing common components to support current application functionality and future application functional growth. One of the deliverables will be the implementation of a more flexible and reliable application infrastructure for the market applications. This project is part of a multi-year effort that is a necessary precursor for an eventual replacement of the Market Information System (MIS) and related bidding and scheduling applications.
Status: Using the NYISO bidding and scheduling system, a market participant will be able to establish transactions to purchase power from a portfolio of generators and deliver that power to a zonal trading hub. Using the same set of tools, the market participant can also establish separate transactions to sell that power, or portions thereof, from the trading hub to a portfolio of load serving entities. This project was successfully deployed in September. This project is complete.

Deliverables: This project will establish zonal trading hubs in the NYISO market systems that provide more flexibility in scheduling of bilateral power transactions. Integration of the MIS with the Credit Management System (CMS) is required in order to successfully implement this market design and manage the credit risk associated with scheduling these transactions.
Status: This project will address the need to evaluate and develop market rules that consider the unique characteristics of the emerging technologies. Potential modifications to the bidding, scheduling, monitoring and settlement processes may be required in order to realize the full potential of these new technologies. The objective of the analysis is to evaluate the new technologies, merge these features into the market comparable with existing product suppliers while maintaining the reliability and market efficiency objectives of the NYISO. This project was successfully deployed in May. This project is complete.

Deliverables: This project will introduce the market design necessary for Limited Energy Storage Resources to provide regulation. Fly wheels and batteries are the targeted resources for this design.
Status: As more generation from wind turbines is added to the system, it becomes increasingly important for NYISO to have the strong tools at our disposal to manage these resources in a reliable way. During 2008, the NYISO began achieving that goal by implementing an intelligent wind power forecasting program. Additionally, NYISO has embarked on a new study assessing the implications of large wind integration in New York, including the impacts on market rules, grid reliability, system cost, and ancillary services. Functionality for dispatching wind was successfully deployed in May.

Deliverables: This project will continue expanding our ability to effectively and reliably manage wind power integration into the NY Bulk Power Grid by addressing recommendations from the 2008 Wind Integration study work, including the ability to direct wind plants to reduce output in response to observed or anticipated reliability limitations.

Status: This first phase of the project has dealt with assessments of each of the penalties assessed to generators to determine the effectiveness and fairness of each. A number of changes have been completed, including the elimination of certain performance penalties for generators and grouped units during Start-up and Shut-down periods. The second phase of the project has dealt with establishing a market design that will capture the impact of units not following their schedules into the real-time pricing outcomes. Design of the necessary market rules, including new physical withholding

Scheduling and
B108 Pricing Improvements provisions, has been completed and approved by the Market Participants. Implementation of the changes is scheduled for $1^{\text {st }}$ quarter and $4^{\text {th }}$ quarter of 2009. The second phase of the project was successfully deployed in March. The third phase of the project was successfully addressed in the third quarter of 2009. Additional improvements are planned for 2010.

Deliverables: Implementation of a series of market efficiency enhancements that have been requested by Market Participants. Each of the requested enhancements requires detailed analysis and study to determine the potential for market impact.
Auxiliary Market Product Enhancements
Status: The NYISO currently uses a series of manual procedures to collect and process EDRP and SCR registrations and SCR monthly ICAP data. This multi-year effort will identify products available to automate current procedures and expand the capabilities of demand response program management, including implementation of new demand response programs. The initial phase will include the development of requirements, evaluation of system products, a make-or-buy decision, and implementation of prioritized requirements. Efforts necessary to support integration with a SmartGrid network will be explored and incorporated into the planning requirements.

Deliverables: Phase 1 implementation will include replacement of the existing Access database and Excel worksheets for demand response program registration. Subsequent phases will include monthly processing of SCR data, automation of the demand response event payment calculations, on-line registration for market participants, enhanced event data submission functions and automation of CBL and performance calculations using hourly interval meter data.

[^3]- Existing generators will be capped at a Summer Capability Period ICAP level via a one-time process based on the highest summer DMNC test over the past five years.
- New generators will be assigned an ICAP equivalent cap for the Summer Capability Period based on the results of the Deliverability Test performed in conjunction with the annual Class Year assessment.
- For all generators, Winter Capability Period ICAP caps will be set to the ratio of CRIS to ERIS levels for each unit, multiplied by the then applicable Winter DMNC level.
Software changes were successfully deployed in March. Additional changes to support deliverability will be needed in 2010.

Deliverables: NYISO will need to implement changes to the existing ICAP Market System to support the results of Deliverability tests.
Status: This project will implement the rules set forth in the NYISO's May 7, 2008 FERC filing, pending FERC approval. The effort consists of:

- For new generators deemed to be Uneconomic, flagging the unit Uneconomic and establish an Effective Start/End Date when the unit is subject to Buyer-Side Mitigation
- Calculating and entering a Unit Specific Buyer-Side Mitigation Reference Floor Price.
- Prohibiting Offers to Sell for Uneconomic Unit as Bilateral Sale, Strip or Monthly Auction.
- Implementing rules to handle overlap between Supply-Side and Buyer-Side Mitigation for units deemed Uneconomic.

Deliverables: The software changes necessary to support these rules were implemented in J une. This project is complete.
Status: With the implementation of long-term forward capacity markets in PJ M and ISO-NE, the NYISO and its stakeholders are considering the addition of a forward market and modifications to the existing capacity market as necessary. Top-level designs for both a mandatory and voluntary market design were vetted with stakeholders during 2008. Stakeholder discussions are ongoing with recent emphasis on credit implications and potential credit requirements. By majority vote, at the J une BIC stakeholders advised the NYISO to suspend work on developing details and functional requirements for a forward capacity market.

Deliverables: Design of a forward capacity market to supplement existing capacity market instruments; stakeholder advisory vote to determine stakeholder support for moving forward with implementation of the design.

SYSTEM OPERATOR 2009 Major Product Enhancements

Status: Following the implementation of the first phase of the TCC Auction Automation software project (Automation of the Awards Process), following phases will deliver the Database / Inventory Automation (Phase 2) and Bidding (Phase 3) functionality required to fully automate the TCC markets. Phase 2 successfully deployed in October 2008. Phase 3 deliverables will allow Market Participants to submit their bids and offers into an auction via a web interface and through an upload process. Error detection will be performed on these submitted bids and offers. Screens will be developed to allow Market Participants to review and modify their submitted bids and offers. Phase 3 was successfully deployed to production on February 10 prior to the Spring 2009 Capability Period Auction. This project is complete.

Deliverables: Following the implementation of the first phase of the TCC Auction Automation software project (Automation of the Awards Process), following phases will deliver the Database / Inventory Automation (Phase 2) and Bidding (Phase 3) functionality required to fully automate the TCC markets.
Status: NYISO has engaged stakeholders in discussions regarding desired functionality in the end state. Specifically, the following functionality will be addressed as part of Phase 1:

- Seasonal Auction Changes (An important feature of the end state auction engine is that it can simultaneously evaluate bids and offers for TCCs of multiple durations, permitting the NYISO to sell six-month and annual TCCs within the same auction round, and add auctions of TCCs additional durations, without extending the length of the auction).
- Monthly Auction Changes (The ability of the end-state auction to simultaneous sell or reconfigure TCCs of multiple durations would enable the NYISO to expand its monthly auctions to reconfiguration auctions not only covering the next month, but the remainder of the capability period or the remainder of the year).
- Expanding the availability of LTFTRs (per FERC's Order) to LSEs that seek to use non-historic points of injection and withdrawal as well as making LTFTRs available to non-LSEs.

Deliverables: This project will provide for TCC Auction 'End State' functionality to include the ability to offer MultiPeriod Auctions with possible Balance-of-Period Auction, On Peak - vs- Off Peak, etc.

## Operations and Reliability Product Enhancements

Status: In 2008 the NYISO initiated the scoping, requirement definition and project plan development, which is currently scheduled for completion in $1^{\text {st }}$ quarter 2009. These activities will include deciding on internal/vendor provision as well as process improvements. A software/implementation design is targeted for $3^{\text {rd }}$ quarter 2009. NYISO selected B122

Reference Price
Software
Replacement

LTI and Potomac through a competitive bidding process; requirements review and design are currently underway. Software design was successfully completed in September.

Deliverables: This is a multi-phased project focusing on the next generation of the Reference Price Software.

Status: The Linden VFT Project's 300 MW of incremental Transmission Transfer Capability was auctioned in twelve - 25 MW blocks. Four customers were awarded transmission scheduling rights ("TSRs") in the open season auction for terms of either three, five or seven years from commercial operation. Nine 25 MW blocks were subscribed for a three year term. Three 25 MW blocks were subscribed for five years. Implementation initially requested by the customer for J une 2009 ( 100 MW ) has been delayed at the request of the customer until August 2009 and the remaining capacity in November ( 300 MW ). Commercial operation commenced on November 1. This project is now complete.

Deliverables: This project will implement the controllable tie line for Linden VFT. The Linden VFT will be a 300 MW VFT bidirectional, controlled line from NJ to the Goethals 345 station. Linden VFT will use incremental transmission capacity on the existing 345 kV radial line that connects the Linden Cogeneration Facility to Con Ed's Goethals substation. This project will also incur cost of additional metering equipment, telephone lines at the PCC \& KCC (Phase 1 data signal).
Status: Transmission and generator outage information is submitted to the NYISO by telephone, email, and/or fax NYISO scheduling staff then approves or disapproves the outage request and manually enters the information into a proprietary database that exists outside of the Ranger operating environment. This proprietary database is used to produce required operating and market facing outage schedule reports. Phase 1 was successfully deployed in J anuary 2009. Phase 2 includes integration with Ranger and automation of external interfaces. Phase 2 was deployed in October.

Deliverables: This multi-phased project includes the replacement of the proprietary database, as well as automation of the manual processes to enter, manage and track outage information. This project also includes the automation and integration with Ranger, and the implementation of user-friendly web interfaces for TOs and Generators to submit outage requests and forced outage data.
Finance Systems Product Enhancements
Status: The multi-phase project will provide credit automation capabilities for each of the NYISO markets in a phased delivery fashion. Following review of the proposals, the cross-functional team selected the software product from the ROME Corporation as the platform on which to build the new system. The project was officially launched in April 2008 with discovery and detailed planning activities. Some internal credit functionality was deployed to production in November 2008. The integration of the Credit Management System and the TCC Automated System was successfully deployed on schedule in February. Virtual Transactions was successfully deployed in September.

Deliverables: Implementation of a rules-based system to integrate with the various NYISO market platforms for the purposes of providing a comprehensive Credit Management System for the NYISO enterprise. This multi-phase project will provide the tools necessary for the Credit Department to manage MP credit and collateral limits, provide Market Participants with tools and reports to manage their own credit, and provide integration to all NYISO market functions such that customer credit obligations are met. 2009 deliverables include Virtual Transactions (Phase 2), Energy and Ancillary Services (Phase 3) and ICAP - Software Ready (Phase 4).

SYSTEM OPERATOR 2009 Major Product Enhancements

| B129 | Billing Process Automation - EDRP Settlements | Status: This project is in the discovery and requirements phase. This settlement process will ultimately require integration with the new Demand Response Program Management System. <br> Deliverables: The NYISO is continuing to dedicate resources to identify automated solutions to the most prevalent manual billing adjustments; this program has been identified as critical and valuable by settlements stakeholders. This project will provide an automated data processing solution for EDRP settlements. The 2009 deliverable is a software design with implementation planned for 2010. |
| :---: | :---: | :---: |
|  | Consolidated Invoice Enhancements | Status: This is a multi-year project with the ultimate objective of redesigning or replacing Consolidated Invoice to provide a cleaner interface for MPs to receive settlement data and to provide greater flexibility and supportability for NYISO staff on the basis of a more robust architecture. Con Invoice has been identified for redesign or replacement to support the goals of the Settlement System Replacement (SSR) strategy. Redesign would entail leveraging the new rules engine platform to the greatest extent possible for the timely delivery of settlement invoices. <br> Deliverables: 2009 project objectives will deliver targeted functionality to support any changes to market rules or the settlement cycle per stakeholder discussions and approval, as well as design deliverables to support the eventual rearchitecture of the platform. |
|  | Business I ntelligenc | Product Enhancements |
| B139 | MMP Data Mart Phase 2 and 3 | Status: This project continues the multi-year effort to build a new data mart designed around the needs of the Market Monitoring and Performance (MMP) team. Since the data needs for this team are extensive and require much of the data that is produced by the NYISO, an initial investigation provided a prioritization for providing needed capabilities in a phased approach. The Physical and Economic Withholding area of responsibility within MMP emerged as the area to provide the most value with a reasonably moderate set of data. This project leverages the significant investment NYISO has made in the Decision Support System (DSS). As this data is introduced into a new data mart for MMP it will also be made available in the existing Customer Settlements and the Pricing Data Marts where appropriate. The first phase was deployed to production in October 2008. Phase 2 delivered data access to Physical Withholding in J une. Phase 3, transactions data access, was successfully deployed in October. <br> Deliverables: Process and system reviews performed for the Market Monitoring and Performance unit during 2007 highlighted deficiencies in the tool-set available to the MMP team for performing certain monitoring and analysis functions. This project is a multi-phase, multi-year effort to provide an integrated and robust set of tools to augment existing processes and manual tools in place. Additional analysis capabilities beyond compliance requirements will be identified and provided. |
| B126 | NYISO Public Website Redesign | Status: This is a significant project to update the NYISO public website with an emphasis on replacing old technology and moving to a more current, navigational design. The requirements for this project will incorporate input from discussions with internal stakeholders (External Affairs) and external stakeholders (Market Participants). This project is currently in the testing phase with plans to go live the first week of December. |

SYSTEM OPERATOR 2009 Major Product Enhancements

Deliverables: This project is a redesign of the public website, including the overall look and feel (moving to a navigational design); and the content and organization of the site

I nfrastructure Product Enhancements
Status: The NYISO Human Resources process is currently carried out by a team of HR Generalists who use a set of spreadsheet-based tools, manual data capture, and storage processes. While the manual processes are welldocumented and consistently followed, they can be cumbersome and inefficient. Deliverables in 2009 are concentrated on four modules for implementation: Human Resources Information, Self Service for Employees, Advanced Benefits and Time and Labor. This project was submitted for reprioritization in the 2010 budgeting process due to the schedule delay

HRIS/ERP System HR Automation
created by the Oracle Licensing dispute resolution process. This project did not receive a high priority and therefore, has been cancelled.

Deliverables: The end-state vision is an application with the following: supports bidirectional data flow between NYISO applications; robustness to support future expansions; easily configurable to support calculation changes; and standard and customized reporting capabilities to support analysis and business processes.
Status: The project has been defined to multiple phases according to the individual business owner / functional area impacted. The first phase was completed in 2007 and involved the usage analysis and elimination of unnecessary forms. The second phase is directed at the Operations department functions and was successfully deployed in mid September. Parallel tracks of work are already addressing the other functional areas of the platform. Finance forms were successfully deployed in February. Another group of forms was deployed to production in July. The remaining forms were successfully deployed in October. This project is complete.

Deliverables: A number of the internal use applications are developed on the Oracle Forms development platform. This technology is no longer supported by the vendor, and the replacement of this platform represents a gating factor for the upgrade of the Oracle database version. Oracle Forms applications are in use by almost every internal NYISO department for managing market data and supporting various NYISO business processes.
Status: As a result of the MS Exchange Project there has been preliminary analysis performed regarding the impact to the Lotus Notes Applications and databases. Work is underway to complete the roadmap for the retirement of the application and database being utilized in Lotus Notes as the NYISO transitions to MS Exchange for E-Mail and calendaring. There needs to be a roadmap put together for the retirement of the application and databases being utilized in Lotus Notes. The migration from Notes to Exchange has been successfully completed. Retiring Lotus Notes is the next milestone to completing this project

Deliverables: Implement MS Exchange and retire Lotus Notes.

## Summary Description of FERC Regulatory Filings, Investigations and Rulemakings and Related Orders in NYISO Matters - October 2009

October 2009 Filings

| Filing <br> Date | Filing Summary | Docket | Order <br> Date | Order Summary |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $10 / 01 / 09$ | NYISO errata filing to move misplaced text from <br> prior filing re: integration of energy storage <br> devices | ER09-836-000 |  |  |  |
| $10 / 01 / 09$ | NYISO response to NYMPA/MEUA supplemental <br> comments re: unsecured credit in the TCC <br> markets | ER09-1612-000 |  | No order |  |
| $10 / 06 / 09$ | NYISO's answer to the procedural motion of the <br> settling parties | EL09-26-000 <br> EL09-26-001 |  |  |  |
| $10 / 07 / 09$ | NYISO Filings of Tariff Sheets with a Revised <br> Effective Date pertaining to enhanced credit <br> requirements for Virtual Transactions | ER09-1317-000 |  |  |  |
| $10 / 13 / 09$ | NYISO Filing of Request for Leave to Respond <br> and Response to Comments and Protests. | ER09-1682-000 |  |  |  |
| $10 / 13 / 09$ | NYISO Status Report on Stakeholder Discussion <br> Regarding Annual ICAP Demand Curve Report | ER01-3001-021 <br> ER01-3001-022 <br> ER03-647-012 <br> ER03-647-013 |  |  |  |
| $10 / 14 / 09$ | 205 Filing NYISO Submitted Proposed <br> Tariff Revisions Establishing Procedures for <br> Stakeholder Involvement in the Analysis of Errors <br> and Development of Corrective Action |  |  |  |  |


| Filing Date | Filing Summary | Docket | Order Date | Order Summary | Outcome |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10/15/09 | NYISO Filing of the Status Report of Netting Bilateral Project | $\begin{aligned} & \text { ER03-552-011 } \\ & \text { ER03-984-009 } \end{aligned}$ |  |  |  |
| 10/16/09 | NYISO filing of its third quarter 2009 EQR report | ER02-2001-000 |  |  |  |
| 10/16/09 | NYISO information letter to FERC to provide notice of implementation of the Linden VFT scheduled line | ER09-981-000 |  |  |  |
| 10/19/09 | NYISO response to deficiency letter on creditworthiness standard, amendment to filing, and request for expedited action by the Commission. | ER09-1612-001 | 11/4/09 | FERC letter order accepting the NYISO's August 20 tariff revisions and October 19 substitute tariff revisions to address creditworthiness concerns, effective October 20 and November 12, 2009 respectively. | Accepted |
| 10/23/09 | NYISO answer to Astoria request for rehearing of 9/3/09 order denying their complaint re: 2009 interconnection planning process | EL09-57-001 | 11/4/09 | FERC Order Granting NRG Rehearing Request for the Limited Purpose of Providing Additional Time for Further Consideration |  |
| 10/23/09 | 205 filing of Proposed Tariff Revisions to Allocate a Portion of Rate Schedule I Charges to Non-Physical Market Transactions, to Special Case Resources, and to Emergency Demand Response Program Participants and Request for Shortened Comment Period and for Expedited Action | ER10-95-000 |  |  |  |
| 10/27/09 | 205 filing, filed Proposed Tariff Revisions Clarifying that violations of FERC's Market Manipulation Rules Also Violate the Market Services Tariff at FERC | ER10-65-000 |  |  |  |
| 10/27/09 | NYISO filed a letter in compliance with the Commission's Order 719-A regarding demand response programs | RM07-19-001 |  |  |  |


| Filing <br> Date | Filing Summary | Docket | Order <br> Date | Order Summary |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $10 / 28 / 09$ | NYISO and NYTOs Joint Compliance Filing to <br> implement the External Capacity Resource <br> Interconnection Service (CRIS) Rights Proposal. | ER04-449-020 |  |  |  |
| $10 / 28 / 09$ | NYISO Order 719 Compliance filing regarding <br> small demand response resources in the <br> ancillary services markets | ER09-1142-000 |  |  |  |
| $10 / 29 / 09$ | NYISO 205 filing of an Amended and Restated <br> Large Generator Interconnection Agreement <br> Among the NYISO, Village of Arcade, NY and <br> Noble Bliss Windpark LLC | ER10-148-000 |  |  |  |
| $10 / 29 / 09$ | NYISO 205 Filing of an Amended and Restated <br> EPC Agreement among the NYISO, Niagara <br> Mohawk Power Corporation, Village of Arcade, <br> NY and Noble Bliss Windpark LLC | ER10--000 |  |  |  |
| $10 / 30 / 09$ | NYISO filing of Comments in Support of the <br> Edison Electric Institute's Motion for an Extension <br> of Time at FERC. | AD09-8-000 |  |  |  |
| $11 / 03 / 09$ | NYISO filing of a request for an extension of time <br> re: 2 compliance issues in 10/15/09 order re: <br> identification of and cost allocation to, the <br> beneficiaries for economic transmission projects | OA08-52-004 <br> and 006 |  |  |  |

## October 2009 Orders

| Filing Date | Filing Summary | Docket | Order Date | Order Summary | Outcome |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 9/10/09 | NYISO, National Grid, Green Power Energy joint filing of a SGIA | ER09-1693-000 | 10/13/09 | FERC letter order accepting LGIA | Accepted |
| 4/29/2009 | NYRI request for rehearing of 3/31/09 order re: NYISO's Order 890 transmission planning process compliance filing | OA08-52-005 | 10/15/09 | Order denying request for rehearing and dismissing motion to reopen the record as moot | Rejected - Favor; |
| 8/20/2009 | NYISO Section 205 filing to revise creditworthiness standards | ER09-1612-000 | 10/16/09 | FERC deficiency letter requiring that the NYISO provide additional information to assist the Commission in rendering a decision. | Deficiency Notice |
| 5/28/2009 | NYISO filing of its eighteenth quarterly report regarding combined cycle units and its efforts to accommodate batch loads and energy storage technologies in its ancillary services markets | ER04-230-000, et. al. | 10/21/09 | FERC letter order accepting report | Accepted |
| 9/01/2009 | $19^{\text {th }}$ Quarterly Report re: efficient utilization of combined cycle units and efforts to accommodate new technologies in the ancillary services markets | $\begin{aligned} & \text { ER04-230-000 } \\ & \text { and 034, ER01- } \\ & 3155-006, \\ & \text { ER01-1385-015, } \\ & \text { EL01-45-014 } \end{aligned}$ | 10/21/09 | FERC letter order accepting report | Accepted |
| 9/15/09 | NYISO filing of a waiver request to utilize the 2009 RNA instead of the 2008 Gold Book data | ER09-1708-000 | 10/29/09 | FERC letter order granting a one time waiver to utilize 2009 RNA forecast | Accepted |


[^0]:    DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches.

[^1]:    * Calendar days from reservation date

[^2]:    Market Monitoring
    Prepared 11/5/2009

[^3]:    Status: On J anuary 15, 2009, FERC ruled on the NYISO's Aug. 5 Deliverability filing. NYISO will need to implement software changes to include the following:

