

# **Market Operation's Report**

# Business Issue Committee Meeting December 14, 2005

Agenda #3

# **Report Items**

Market Performance Highlights

# Market Performance Highlights for November 2005

- NYISO LBMP and Average Cost have decreased this month relative to October.
  - LBMP for November is \$82.00/MWh, down from \$118.56/MWh in October.
  - Average cost is \$85.72/MWh, down from \$121.32/MWh in October.
  - Both Day Ahead and Real Time LBMPs have decreased this month.
- > Fuel prices are uniformly down this month
  - Kerosene is \$13.04/mmBTU, down from \$15.67/mmBTU in October
  - No. 2 Fuel Oil is \$12.03/mmBTU, down from \$13.51/mmBTU in October
  - Natural Gas is \$10.45/mmBTU, down from \$14.40/mmBTU in October
  - No. 6 Fuel Oil is \$8.42/mmBTU, down from \$9.68/mmBTU in October
- Uplift has increased this month relative to October 2005 and relative to November 2004.
  - Uplift (not including NYISO cost of operations) is \$1.26/MWh, up from \$0.52/MWh in October 2005.
- Regulation Prices increased slightly in the Day Ahead market and declined in the Real Time market this month.

### Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2004 Annual Average \$62.80/MWh November 2004 YTD Average \$62.45/MWh November 2005 YTD Average \$92.62/MWh \$180 \$160 \$140 \$120 \$100 \$80 \$60 \$40 \$20 \$0 3/26 4/23 2/26 5/21 7/2 7/30 8/27 10/8 10/22 11/5 11/19 12/3 12/17 12/31 7 2005 -2004

Market Monitoring Prepared: 12/7/2005 9:00

<sup>\*</sup> Excludes ICAP payments

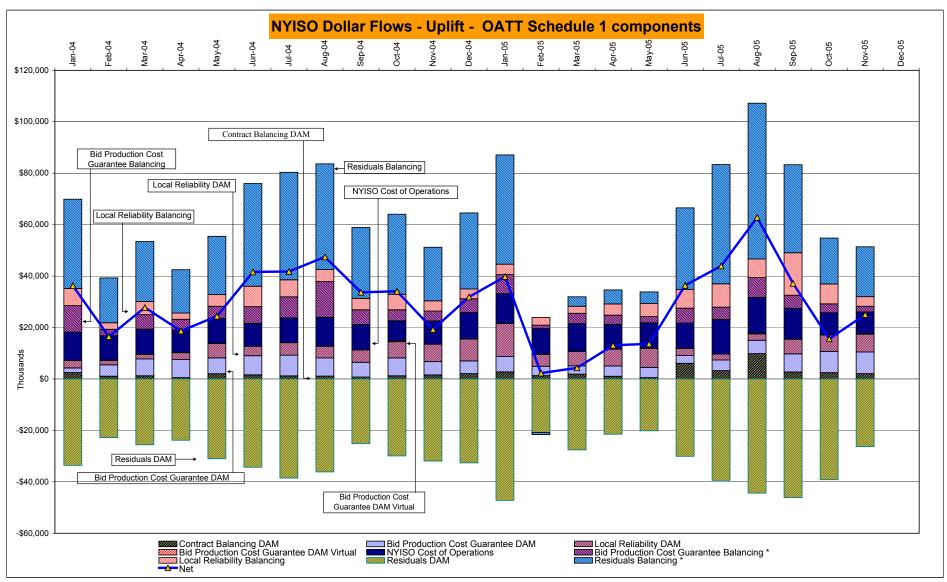
## NYISO Average Cost/MWh (Energy and Ancillary Services)\* from the LBMP Customer point of view

2005  LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Voltage Support and Black Start Avg Monthly Cost	January 75.70 0.43 0.25 0.32 0.79 1.99 0.39 79.86	February 64.03 0.36 0.08 0.40 0.79 (0.59) 0.39	March 69.95 0.23 0.17 0.34 0.79 (0.47) 0.39 71.38	April 71.28 0.49 0.21 0.22 0.79 0.29 0.39 73.67	May 63.13 0.40 0.20 0.25 0.79 0.30 0.39 65.46	June 84.83 0.58 (0.01) 0.20 0.63 1.85 0.39 88.48	July 92.41 0.46 0.11 0.14 0.79 1.92 0.39 96.21	August 115.20 0.25 0.02 0.06 0.79 2.86 0.39	September 122.44 0.10 0.31 0.41 0.79 1.71 0.39	October 118.56 0.03 0.54 0.64 0.63 0.52 0.39 121.32	82.00 0.39 0.34 0.70 0.63 1.26 0.39	<u>December</u>
Avg YTD Cost	79.86	73.34	72.67	72.90	71.60	74.94	78.94	85.61	90.42	93.20	92.62	
2004 LBMP	January 76.13	February 57.13	<u>March</u> 50.56	<u>April</u> 52.48	<u>May</u> 61.23	<u>June</u> 59.79	<u>July</u> 59.60	August 57.20	September 53.01	October 58.66	November 59.79	December 62.93
NTAC	0.47	0.42	0.55	0.51	0.42	0.53	0.34	0.43	0.23	0.29	0.46	0.69
Reserve	0.27	0.14	0.21	0.17	0.13	0.09	0.07	0.06	0.06	0.12	0.15	0.22
Regulation	0.23	0.36	0.29	0.15	0.13	0.14	0.14	0.17	0.32	0.43	0.45	0.28
NYISO Cost of Operations	0.73	0.73	0.73	0.72	0.73	0.63	0.63	0.73	0.73	0.63	0.72	0.73
Uplift	1.74	0.52	1.35	0.81	1.10	2.33	2.14	2.43	1.77	2.05	0.80	1.55
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	79.94	59.66	54.05	55.21	64.09	63.87	63.27	61.38	56.48	62.54	62.74	66.75
Avg YTD Cost	79.94	70.85	65.43	63.14	63.33	63.42	63.40	63.12	62.41	62.42	62.45	62.80

These numbers reflect the rebilling of prior periods

Market Monitoring Prepared: 12/7/2005 9:00

<sup>\*</sup> Excludes ICAP payments

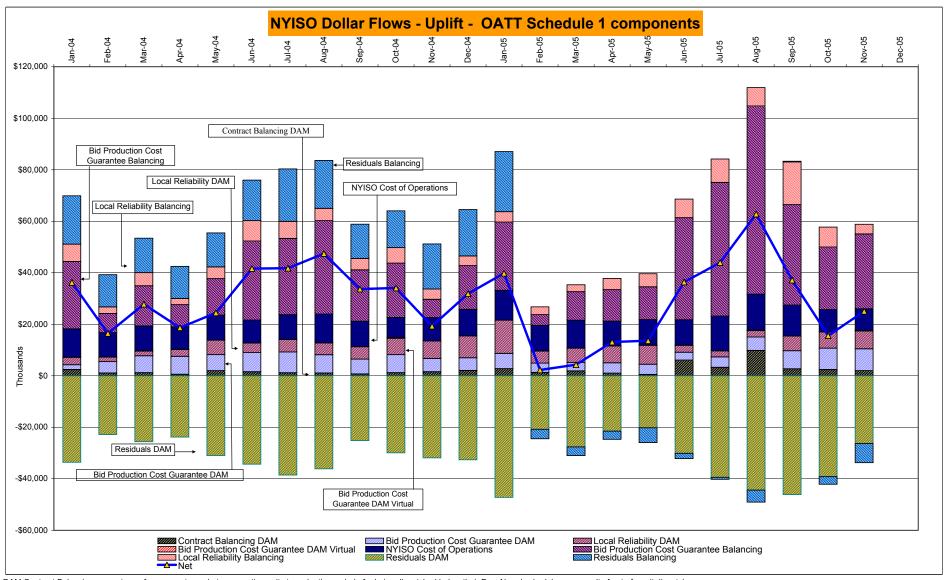


DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches.

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.

DAM residuals are revenue charged or returned to customers due to the under or over collection of funds. On this chart, negative values represent funds returned to Transmission Customers (through Transmission Owners' Transmission Service Charges).

<sup>\*</sup> Effective November 2005 codes 81305 and 81312 have been re-categorized from BPCG Balancing to Residuals Balancing so as to better reflect their uplift type (see 4-AE) . All months have been adjusted accordingly.



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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.

DAM residuals are revenue charged or returned to customers due to the under or over collection of funds. On this chart, negative values represent funds returned to Transmission Customers (through Transmission Owners' Transmission Service Charges).

<sup>\*</sup> This chart reflects the billing code categories that were in effect prior to the November 2005 re-categorization and is meant for comparison purposes only.

**NYISO Markets Transactions** 2005 February March April June July August September October November December January May Day Ahead Market MWh 14.281.481 12.510.148 13.410.579 12.215.628 12.773.478 14.981.363 16.344.465 16.587.663 14.706.243 13.309.658 12 893 992 DAM LSE Internal LBMP Energy Sales 48% 49% 52% 52% 45% 50% 53% 52% 49% 46% 45% DAM External TC LBMP Energy Sales 3% 1% 1% 1% 3% 3% 3% 4% 6% 4% 4% 47% 48% 45% 44% 50% 44% 42% 42% 43% 47% 48% DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals 1% 1% 1% 0% 0% 1% 1% 1% 2% 2% 2% DAM Bilateral - Export/Non-LBMP Market Bilaterals 1% 1% 1% 1% 2% 1% 1% 1% 1% 1% 1% DAM Bilateral - Wheel Through Bilaterals 1% 0% 1% 0% 0% 1% 0% 0% 0% 0% 0% Balancing Energy Market MWh 419.365 127.124 348.162 54.545 -114.876 678.572 804.232 1.115.203 556.961 384.383 365.677 Balancing Energy LSE Internal LBMP Energy Sales 78% -35% 26% -365% -282% 54% 73% 73% 34% 4% -15% 50% 42% 23% 20% 93% Balancing Energy External TC LBMP Energy Sales 156% 73% 494% 183% 38% 100% Balancing Energy Bilateral - Internal Bilaterals -13% -29% -9% 6% 5% 5% 6% 6% 13% 4% 13% Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals 1% 0% 0% 3% 2% 1% 1% 0% 0% 1% 1% Balancing Energy Bilateral - Wheel Through Bilaterals -8% -13% -5% -2% -7% 3% -2% 1% 3% -1% 2% Transactions Summary LBMP 53% 51% 54% 54% 47% 55% 58% 58% 56% 52% 50% 50% 39% Internal Bilaterals 45% 47% 44% 44% 42% 40% 42% 45% 47% Import Bilaterals 1% 1% 1% 0% 0% 1% 1% 1% 1% 2% 2% **Export Bilaterals** 1% 1% 1% 1% 2% 1% 1% 1% 1% 1% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% Wheels Through 1% 0% Market Share of Total Load Day Ahead Market 97.1% 99.0% 97.5% 99.6% 100.9% 95.7% 95.3% 93.7% 96.4% 97.2% 97.2% 0.4% -0.9% \* Balancing Energy + 2.9% 1.0% 2.5% 4.3% 4.7% 6.3% 3.6% 2.8% 2.8% Total MWH 14,700,846 12,637,272 13,758,741 12,270,173 12,658,602 15,659,935 17,148,697 17,702,866 15,263,205 13,694,041 13,259,669 399 Average Daily Energy Sendout/Month GWh 462 447 433 395 501 536 549 478 418 419 2004 September November January February March April May June July August October December 12,214,936 Day Ahead Market MWh 14.614.304 12.806.346 12.836.889 11.818.317 13.026.160 13.737.390 15.071.422 14.939.105 13.228.022 12.375.053 13.471.387 52% 50% 51% 51% 47% 49% 53% 54% 53% 52% 53% 49% DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales 4% 2% 3% 3% 4% 3% 2% 1% 1% 0% 0% 2% 41% 45% 44% 44% 46% 45% 43% 43% 44% 44% 48% DAM Bilateral - Internal Bilaterals 45% DAM Bilateral - Importl/Non-LBMP Market Bilaterals 1% 1% 1% 0% 0% 0% 0% 0% 0% 0% 0% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals 1% 1% 1% 1% 1% 1% 1% 1% 1% 0% 0% 0% 367.460 269,220 380,696 **Balancing Energy Market MWh** 508.837 238.876 424.726 139.472 297.506 322.983 68.554 275.972 574.623 Balancing Energy LSE Internal LBMP Energy Sales 66% 31% 30% 29% 35% -9% 70% 61% 84% -46% 19% 24% Balancing Energy External TC LBMP Energy Sales 57% 78% 41% 38% 77% 74% 170% 73% 50% 125% 69% 30% Balancing Energy Bilateral - Internal Bilaterals -20% 0% 0% -9% 3% 5% 13% 5% 39% 23% 11% 3% Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals 0% 0% 0% 1% 1% 0% 1% 0% 0% 0% 0% 0% Balancing Energy Bilateral - Wheel Through Bilaterals -4% -11% -3% -14% -11% -8% -39% -13% -8% -40% -5% -3% Transactions Summary LBMP 58% 54% 56% 55% 53% 54% 55% 56% 54% 53% 55% 52% Internal Bilaterals 40% 44% 42% 43% 45% 44% 43% 43% 44% 45% 44% 46% 1% 1% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% Import Bilaterals **Export Bilaterals** 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% Wheels Through 1% 0% 1% 0% 1% 1% 0% 1% 1% 0% 0% 0% Market Share of Total Load 97.5% 95.9% Day Ahead Market 97.9% 96.2% 98.0% 97.2% 97.0% 99.1% 98.0% 97.6% 99.4% 97.8% Balancing Energy + 2.5% 2.1% 3.8% 2.0% 2.8% 3.0% 0.9% 2.0% 2.4% 0.6% 2.2% 4.1% 13,406,856 Total MWH 14.981.764 13.075.566 13.345.726 12.057.193 14.162.116 15.210.894 15.236.611 13.551.005 12.443.607 12.490.908 14.046.010

464

440

otes: Percent totals may not equal 100% due to rounding

403

Virtual Transactions are not reflected in this chart.

415

393

408

451

481

485

416

Average Daily Energy Sendout/Month GWh

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

<sup>\*</sup> The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

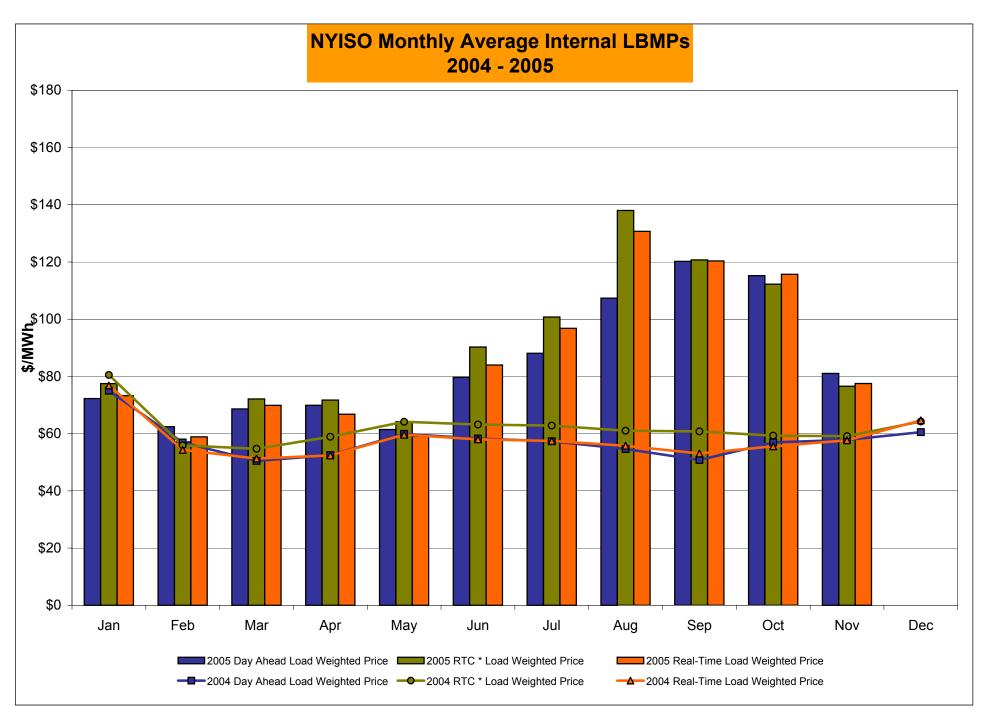
#### NYISO Markets 2005 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
DAY AHEAD LBMP												
Price *	\$69.55	\$61.04	\$67.17	\$68.14	\$59.59	\$75.49	\$83.75	\$102.33	\$115.47	\$110.99	\$78.56	
Standard Deviation	\$23.42	\$12.00	\$12.49	\$14.20	\$13.39	\$22.85	\$24.32	\$31.65	\$32.31	\$28.39	\$21.07	
Load Wtg.Price **	\$72.26	\$62.42	\$68.61	\$69.92	\$61.44	\$79.64	\$88.09	\$107.34	\$120.22	\$115.20	\$81.05	
RTC *** LBMP												
Price *	\$74.47	\$55.93	\$70.40	\$69.92	\$61.59	\$85.42	\$94.96	\$129.60	\$116.00	\$108.53	\$74.02	
Standard Deviation	\$44.64	\$16.80	\$26.13	\$23.51	\$59.20	\$62.91	\$68.35	\$116.09	\$44.35	\$42.95	\$33.43	
Load Wtg.Price **	\$77.48	\$57.10	\$72.12	\$71.72	\$64.16	\$90.25	\$100.76	\$138.00	\$120.72	\$112.25	\$76.57	
REAL TIME LBMP												
Price *	\$70.25	\$57.57	\$68.04	\$64.95	\$57.20	\$77.75	\$90.48	\$122.21	\$114.94	\$110.90	\$74.62	
Standard Deviation	\$31.79	\$20.48	\$32.50	\$26.06	\$42.34	\$55.70	\$72.95	\$103.00	\$42.92	\$55.35	\$36.61	
Load Wtg.Price **	\$73.26	\$58.86	\$69.88	\$66.77	\$59.04	\$83.96	\$96.82	\$130.69	\$120.36	\$115.69	\$77.51	
Average Daily Energy Sendout/Month GWh	462	447	433	399	395	501	536	549	478	418	419	

#### NYISO Markets 2004 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
DAY AHEAD LBMP		-			<del></del>							
Price *	\$72.12	\$55.31	\$49.08	\$51.01	\$57.25	\$55.03	\$55.33	\$52.59	\$49.03	\$55.32	\$55.89	\$58.70
Standard Deviation	\$25.99	\$14.40	\$10.90	\$11.42	\$16.72	\$17.82	\$12.68	\$12.49	\$11.17	\$12.89	\$14.62	\$14.44
Load Wtg.Price **	\$75.01	\$56.90	\$50.44	\$52.50	\$59.89	\$58.29	\$57.32	\$54.60	\$50.78	\$56.93	\$57.80	\$60.52
RTC *** LBMP												
Price *	\$77.51	\$54.41	\$53.01	\$56.94	\$60.98	\$59.15	\$60.43	\$58.27	\$58.01	\$57.59	\$56.91	\$62.28
Standard Deviation	\$37.54	\$15.73	\$16.25	\$18.41	\$23.58	\$24.50	\$20.60	\$19.57	\$25.82	\$16.11	\$19.63	\$21.85
Load Wtg.Price **	\$80.51	\$55.89	\$54.71	\$58.89	\$64.14	\$63.17	\$62.81	\$61.02	\$60.75	\$59.27	\$59.12	\$64.24
REAL TIME LBMP												
Price *	\$73.72	\$52.95	\$49.56	\$50.83	\$56.20	\$54.03	\$55.08	\$52.89	\$51.06	\$54.00	\$55.46	\$61.76
Standard Deviation	\$32.61	\$15.04	\$17.75	\$14.15	\$25.74	\$23.42	\$17.07	\$19.56		\$17.42	\$20.32	\$37.79
Load Wtg.Price **	\$76.85	\$54.33	\$51.27	\$52.36	\$59.61	\$58.01	\$57.44	\$55.75	\$53.06	\$55.57	\$57.67	\$64.65
Average Daily Energy Sendout/Month GWh	464	440	416	393	408	451	481	485	447	403	415	447

Average zonal load weighted prices
 \*\* Average zonal load weighted prices, load weighted in each hour
 \*\*\* Referred to as RTC beginning February 2005
 Prior to February 2005 known as BME or Hour Ahead Market (HAM)



<sup>\*</sup> Referred to as RTC beginning February 2005 Prior to February 2005 known as BME or Hour Ahead Market (HAM)

#### November 2005 Zonal Statistics for NYISO (\$/MWh)

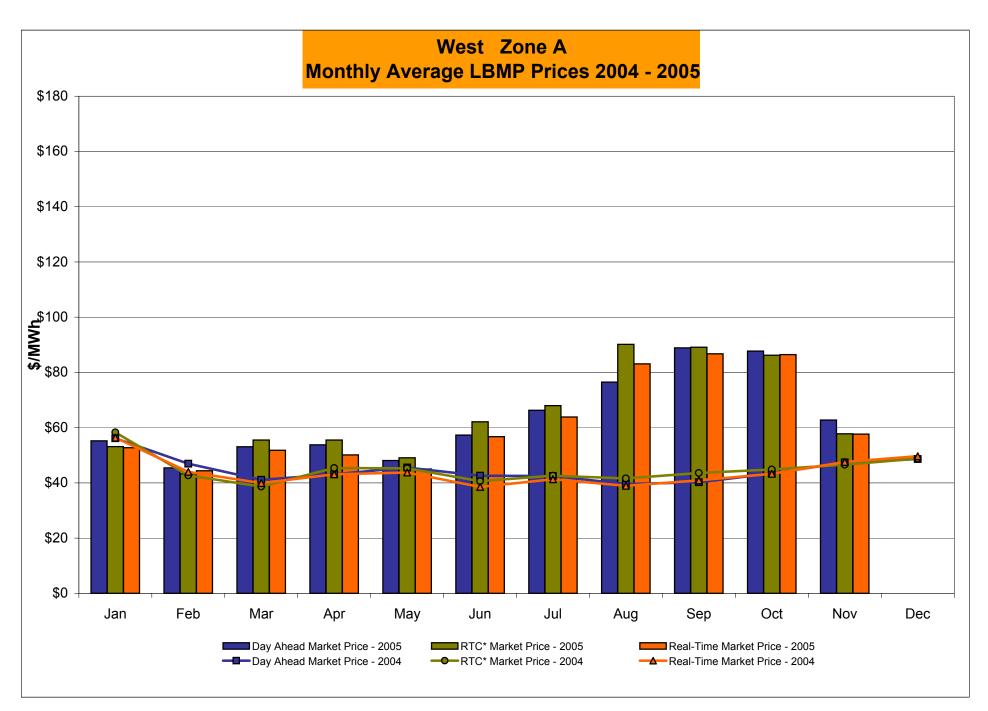
DAY AHEAD LBMP	WEST Zone A	GENESEE Zone B	NORTH Zone D	CENTRAL Zone C	MOHAWK VALLEY Zone E	CAPITAL Zone F	HUDSON VALLEY Zone G	MILLWOOD Zone H	DUNWOODIE Zone I	NEW YORK CITY Zone J	LONG ISLAND Zone K
Unweighted Price *	62.76	66.34	69.45	68.95	71.24	76.81	77.27	78.75	79.60	86.75	91.75
Standard Deviation	18.13	19.50	19.43	20.20	20.63	22.57	23.27	23.68	23.68	25.01	17.85
RTC** LBMP											
Unweighted Price *	57.74	62.06	64.75	64.11	66.14	70.00	71.10	71.36	71.50	84.47	86.07
Standard Deviation	30.83	32.11	32.34	32.84	33.57	35.13	35.57	35.70	35.75	36.38	33.22
REAL TIME LBMP											
Unweighted Price *	57.63	62.08	64.65	64.02	66.00	69.50	70.72	70.96	71.10	86.14	87.08
Standard Deviation	33.39	35.24	35.90	36.05	36.97	38.45	39.02	39.15	39.20	40.58	36.41
	ONTARIO IESO	HYDRO QUEBEC	РЈМ	NEW ENGLAND	CROSS SOUND CABLE Controllable						

	ONTARIO IESO	HYDRO QUEBEC	РЈМ	NEW ENGLAND	SOUND CABLE Controllable
	Zone O	Zone M	Zone P	Zone N	Line
DAY AHEAD LBMP					
Unweighted Price *	60.91	71.32	66.20	77.21	90.59
Standard Deviation	17.21	19.15	20.78	22.25	16.99
RTC** LBMP					
Unweighted Price *	50.52	52.38	53.16	67.76	81.38
Standard Deviation	20.06	154.12	21.31	21.49	21.58
REAL TIME LBMP					
Unweighted Price *	56.11	57.94	58.20	73.52	85.83
Standard Deviation	32.49	85.72	33.52	35.34	34.87

<sup>\*</sup> Straight zonal LBMP averages

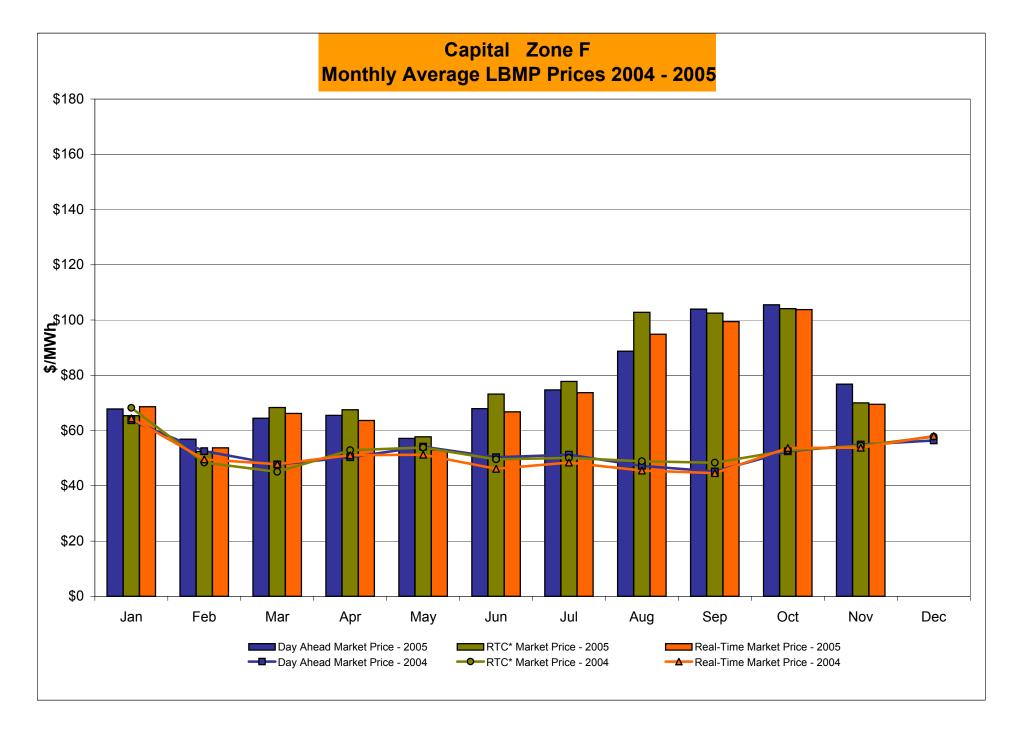
\*\* Referred to as RTC beginning February 2005

Prior to February 2005 known as BME or Hour Ahead Market (HAM)

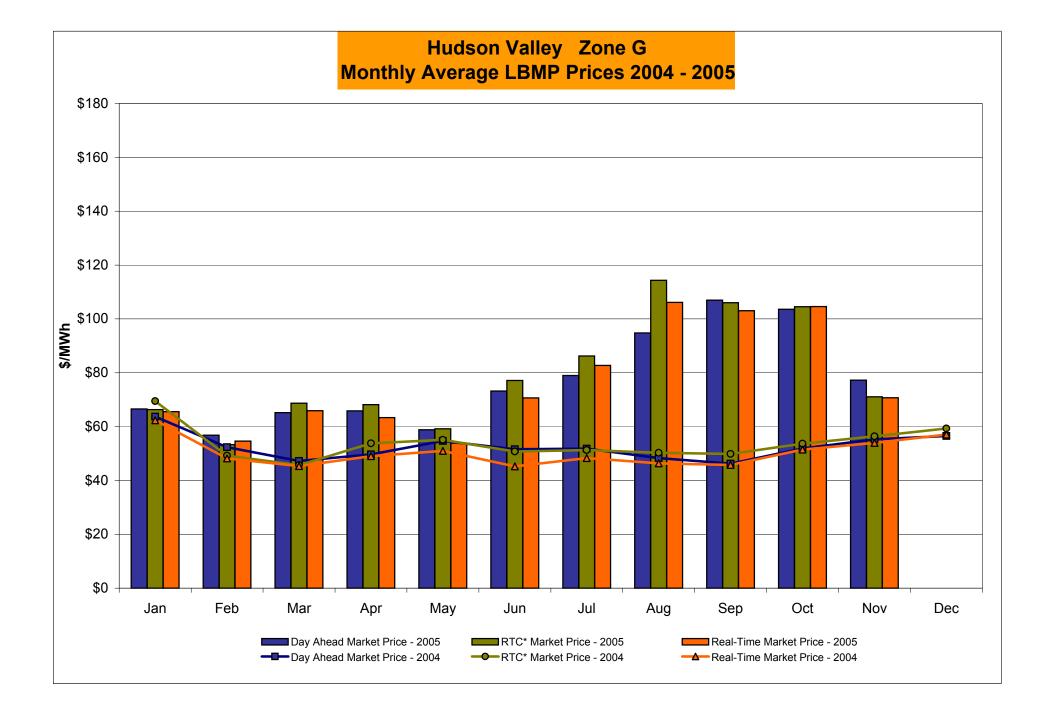


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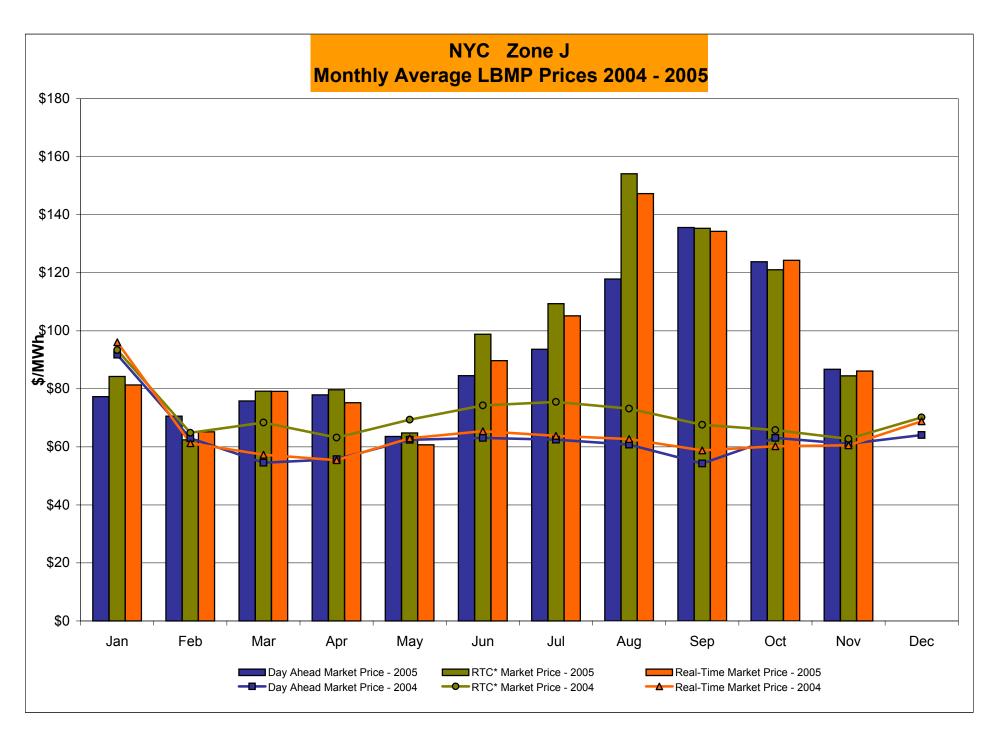
Market Monitoring
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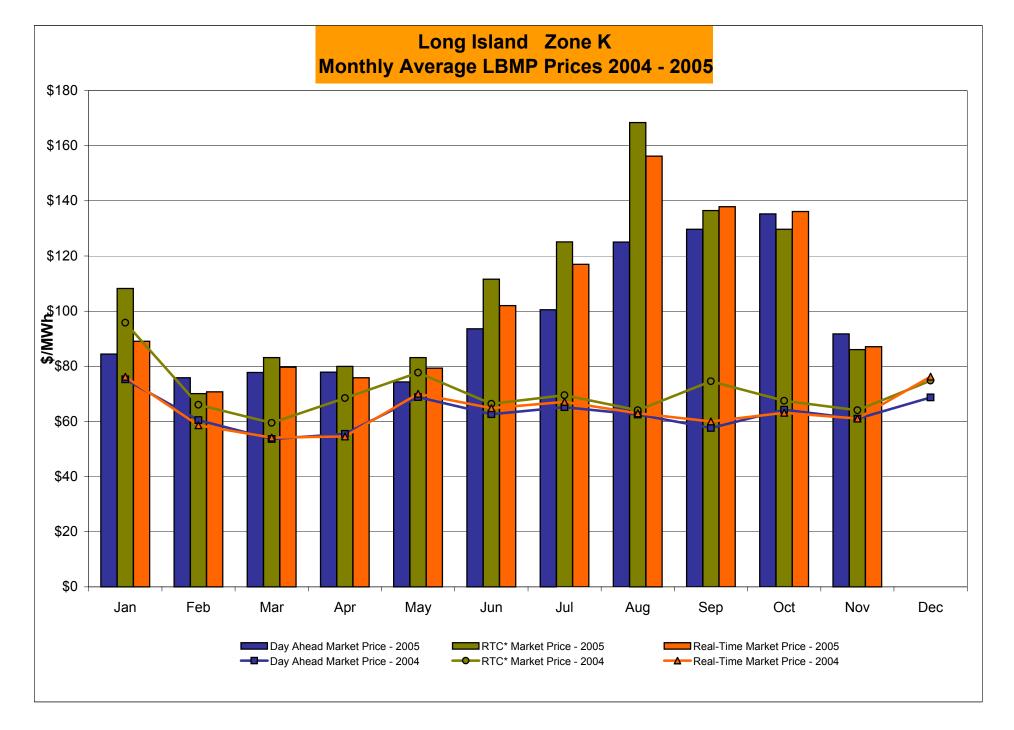


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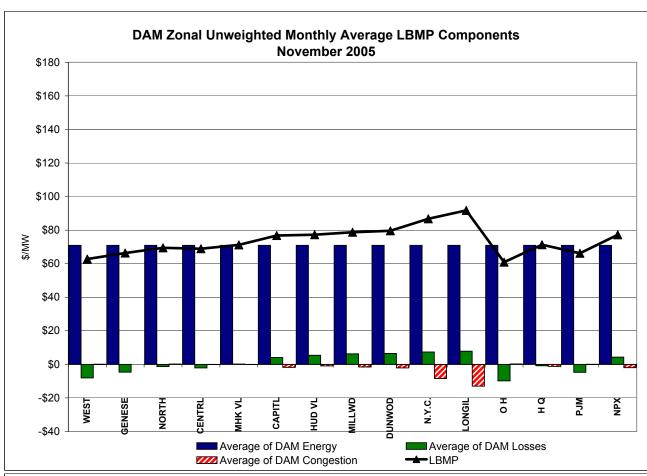


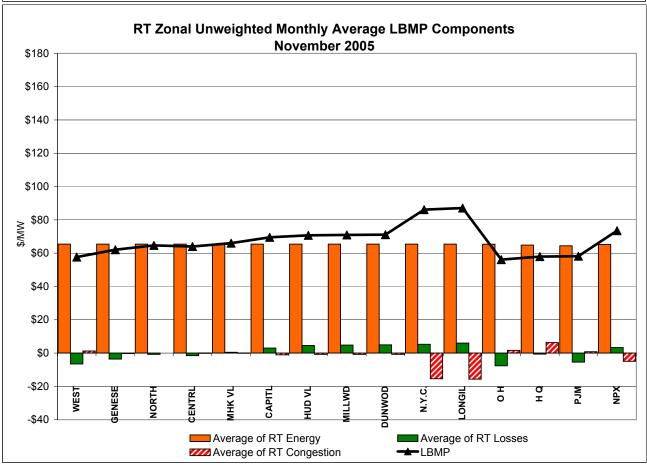
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Market Monitoring Prepared: 12/7/2005 13:00

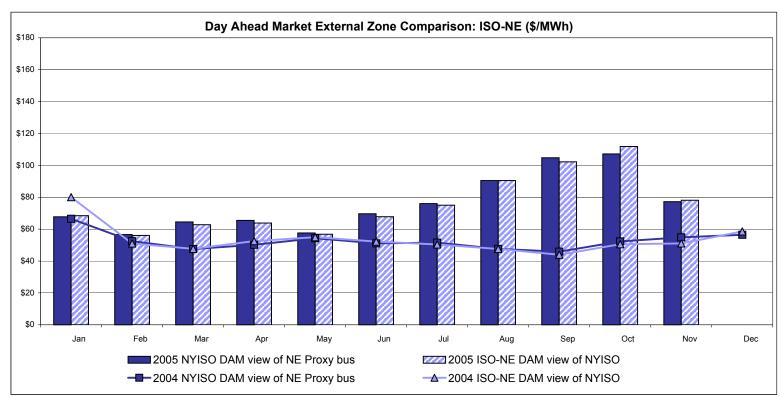


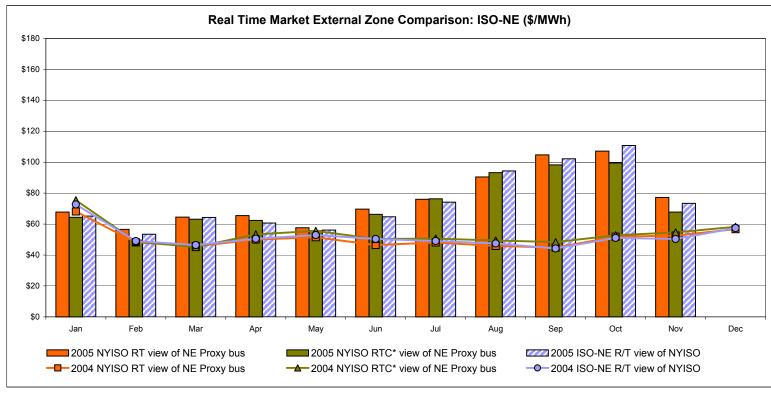
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### **External Comparison ISO-New England**





#### Note:

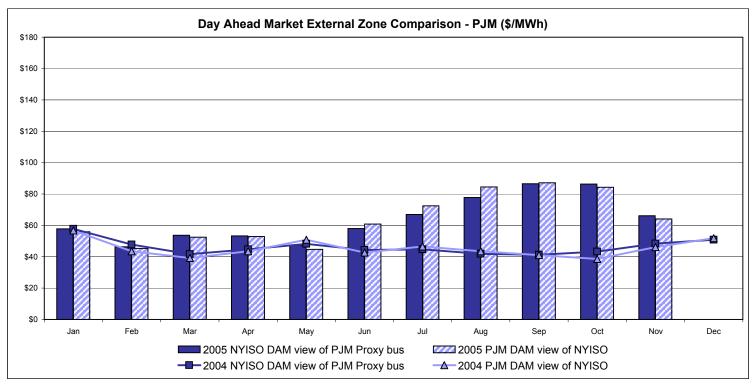
ISO-NE Forecast is an advisory posting @ 18:00 day before.

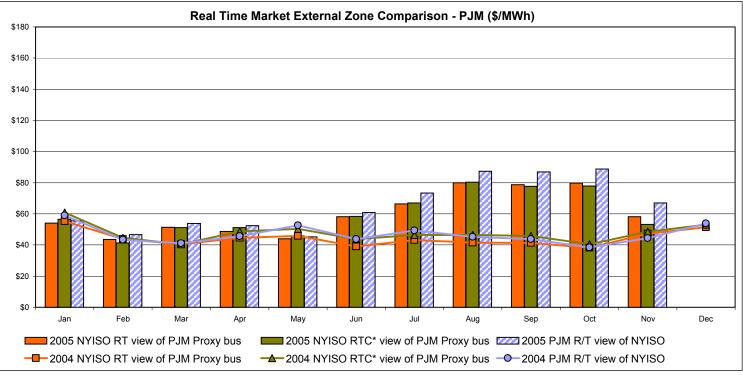
The DAM and R/T prices at the Roseton interface are used for ISO-NE.

The DAM and R/T prices at the SandyPond interface are used for NYISO.

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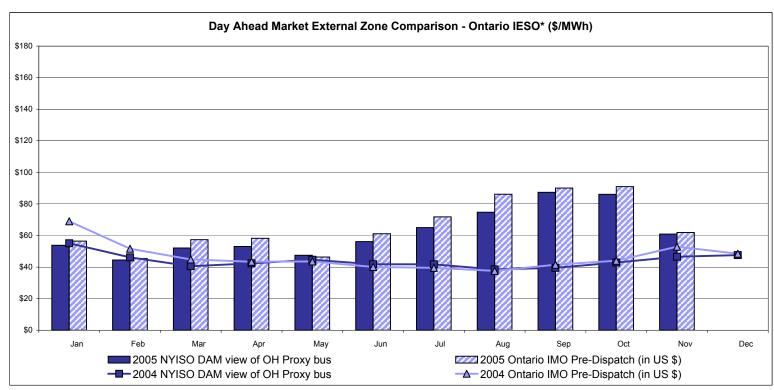
### **External Comparison PJM**

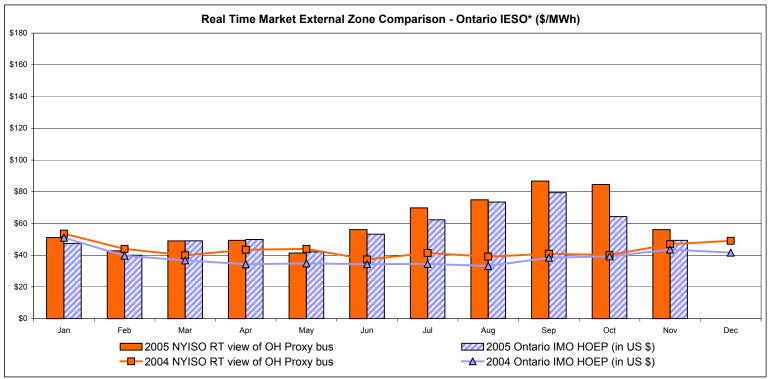




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## **External Comparison Ontario IESO\***



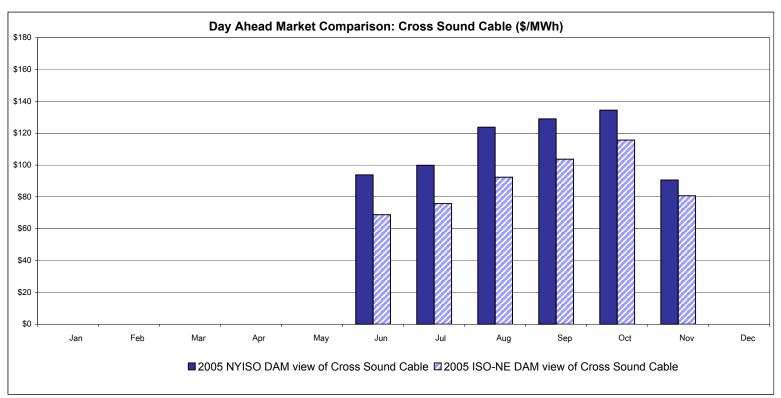


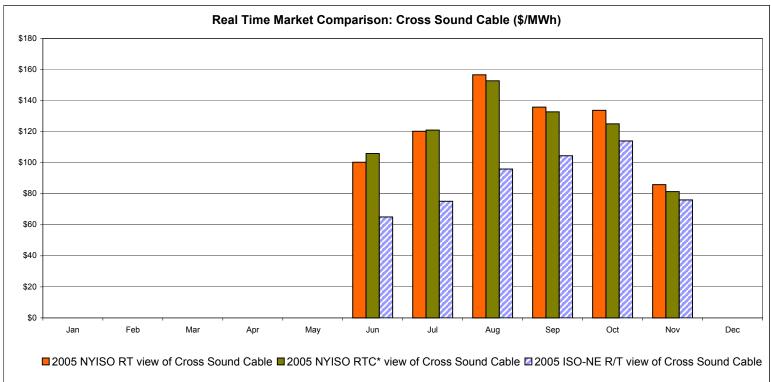
Notes: Exchange factor used for November 2005 was .85 to US \$

HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

<sup>\*</sup> Independent Electricity System Operator formerly known as the Independent Electricity Market Operator (IMO)

### **External Controllable Line: Cross Sound Cable (New England)**





#### Note:

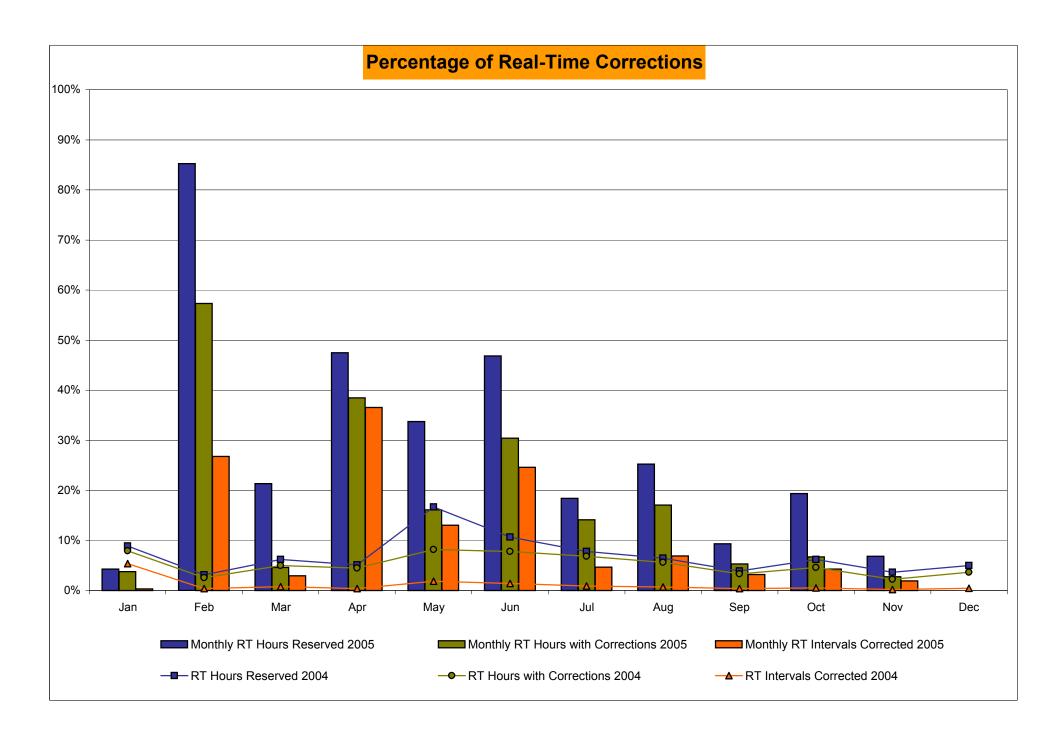
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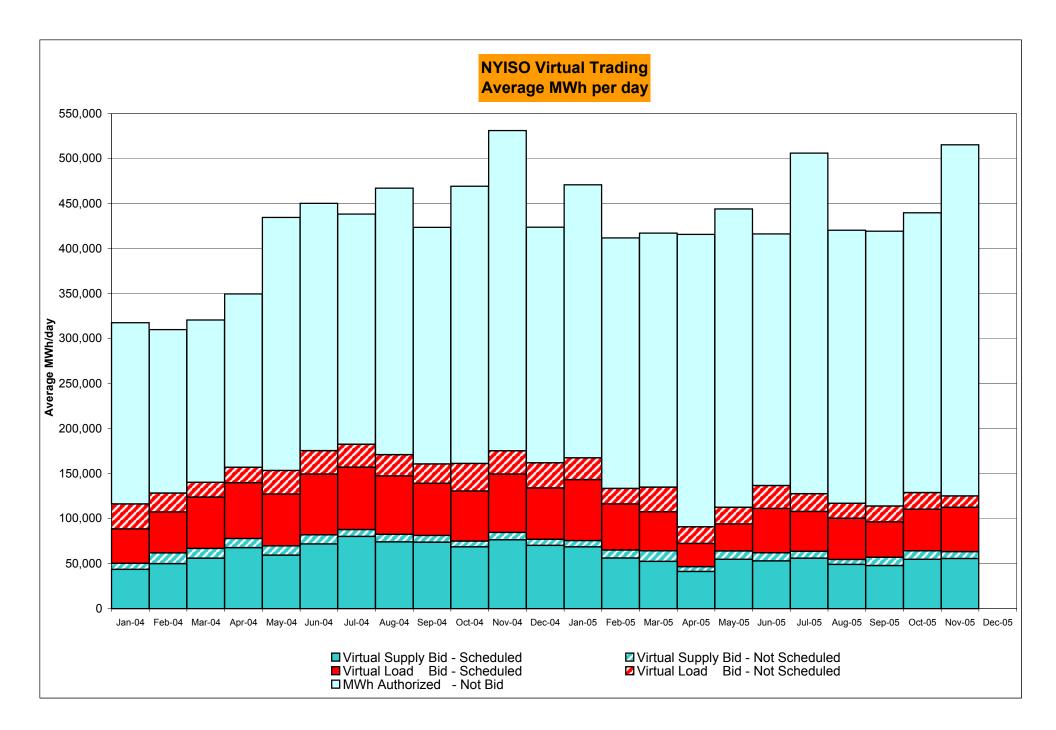
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The DAM and R/T prices at the CSC interface are used for NYISO.

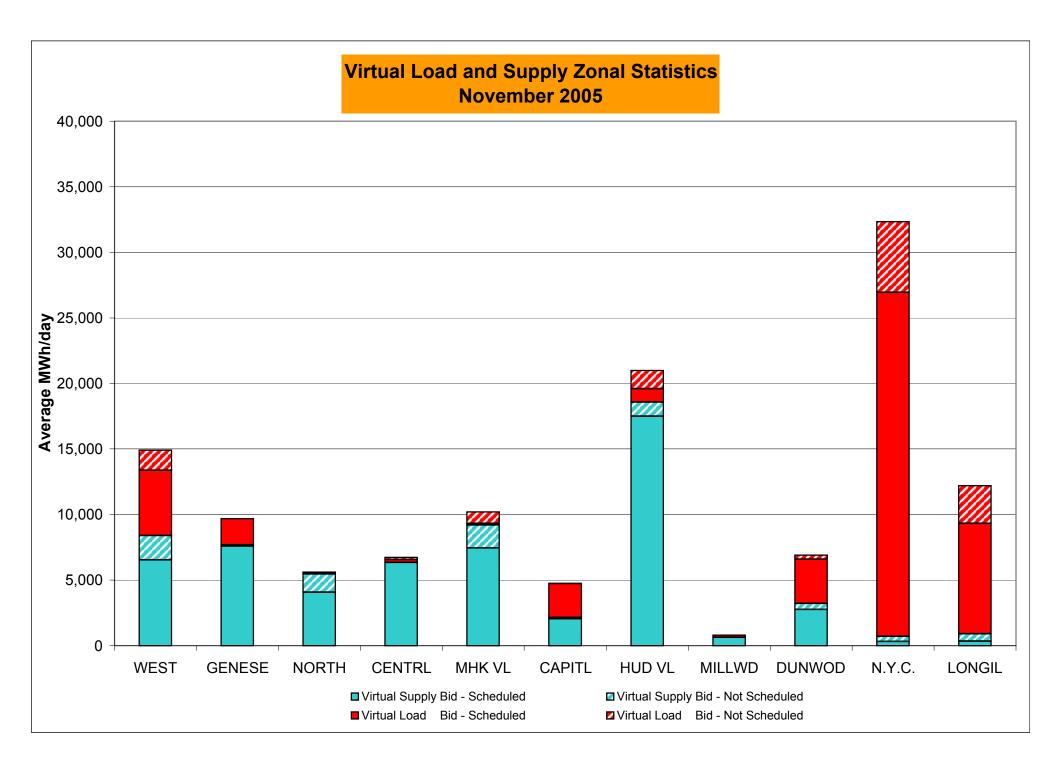
\* Referred to as RTC beginning February 2005 Prior to February 2005 known as BME or Hour Ahead Market (HAM)

**NYISO Real Time Price Correction Statistics** 2005 February March April May June July August September October November December **January Hour Corrections** Number of hours with corrections in the month 28 385 34 277 120 219 105 127 38 50 20 Number of hours in the month 744 672 744 720 744 720 744 744 720 744 720 % of hours with corrections in the month 3.76% 57.29% 4.57% 38.47% 16.13% 30.42% 14.11% 17.07% 5.28% 6.72% 2.78% Number of hours with corrections year-to-date 28 413 447 724 844 1,063 1,168 1,295 1,333 1,383 1,403 Number of hours vear-to-date 744 1 416 2 160 2 880 3 624 4 344 5 088 5 832 6 552 7 296 8 016 % of hours with corrections vear-to-date 23.29% 3.76% 29.17% 20.69% 25.14% 24.47% 22.96% 22.21% 20.34% 18.96% 17.50% Interval Corrections Number of intervals corrected in the month 37 2.177 266 3.182 1.170 2.145 421 625 281 386 167 Number of intervals in the month 11.811 8.131 8.961 8.711 8.972 8.729 9.024 9.065 8.741 9.029 8.721 0.31% 2.97% 36.53% 13.04% 6.89% 3.21% % of intervals corrected in the month 26.77% 24.57% 4.67% 4.28% 1.91% Number of intervals corrected year-to-date 37 2.214 2.480 5.662 6.832 8.977 9.398 10.023 10.304 10.690 10.857 Number of intervals vear-to-date 11.811 19.942 28,903 37,614 46,586 55,315 64,339 73.404 82.145 91.174 99,895 8.58% 14.67% 11.72% % of intervals corrected vear-to-date 0.31% 11.10% 15.05% 16.23% 14.61% 13.65% 12.54% 10.87% **Hours Reserved** Number of hours reserved in the month 32 573 159 342 251 337 137 188 67 144 49 Number of hours in the month 744 672 744 720 744 720 744 744 720 744 720 % of hours reserved in the month 4.30% 85.27% 21.37% 47.50% 33.74% 46.81% 18.41% 25.27% 9.31% 19.35% 6.81% 32 605 764 1.106 1.357 1.694 1.831 2.019 2.086 2.230 2.279 Number of hours reserved vear-to-date Number of hours vear-to-date 744 1.416 2.160 2.880 3.624 4.344 5.088 5.832 6.552 7.296 8.016 4.30% % of hours reserved vear-to-date 42.73% 35.37% 38.40% 37.44% 39.00% 35.99% 34.62% 31.84% 30.56% 28.43% **Davs Without Corrections** Days without corrections in the month 12 4 16 3 4 4 6 6 17 17 22 Days without corrections vear-to-date 12 16 32 35 39 43 49 55 72 89 111 2004 January February March April May June July August September October November December **Hour Corrections** Number of hours with corrections in the month 59 18 37 32 61 56 51 42 24 34 16 27 Number of hours in the month 744 696 744 720 744 720 744 744 720 744 720 744 4.44% 7.78% 3.33% 4.57% 2.22% % of hours with corrections in the month 7.93% 2.59% 4.97% 8.20% 6.85% 5.65% 3.63% Number of hours with corrections year-to-date 59 77 114 146 207 263 314 356 380 414 430 457 744 Number of hours year-to-date 1.440 2.184 2.904 3.648 4.368 5.112 5.856 6.576 7.320 8.040 8.784 % of hours with corrections vear-to-date 7.93% 5.35% 5.22% 5.03% 5.67% 6.02% 6.14% 6.08% 5.78% 5.66% 5.35% 5.20% **Interval Corrections** Number of intervals corrected in the month 597 40 83 40 220 156 100 84 42 56 19 52 Number of intervals in the month 11.089 10.495 11.085 10.805 11.740 11.234 11.467 11.552 11.178 11.515 11.217 11.790 % of intervals corrected in the month 5.38% 0.38% 0.75% 0.37% 1.87% 1.39% 0.87% 0.73% 0.38% 0.49% 0.17% 0.44% Number of intervals corrected vear-to-date 597 637 720 760 980 1,136 1,236 1,320 1,362 1,418 1,437 1,489 Number of intervals vear-to-date 11.089 21.584 32.669 43.474 55.214 66.448 77.915 89.467 100.645 112.160 123.377 135.167 % of intervals corrected vear-to-date 5.38% 2.95% 2.20% 1.75% 1.77% 1.71% 1.59% 1.48% 1.35% 1.26% 1.16% 1.10% **Hours Reserved** Number of hours reserved in the month 66 22 46 37 124 77 58 48 28 46 26 37 Number of hours in the month 744 696 744 720 744 720 744 744 720 744 720 744 8 87% 3.16% 6 18% 5 14% 16.67% 10.69% 7.80% 6.45% 3 89% 6 18% 3.61% % of hours reserved in the month 4.97% Number of hours reserved year-to-date 66 88 134 171 295 372 430 478 506 552 578 615 Number of hours year-to-date 744 1.440 2.184 2.904 3.648 4.368 5.112 5,856 6.576 7,320 8.040 8.784 8.16% % of hours reserved vear-to-date 8.87% 6.11% 6.14% 5.89% 8.09% 8.52% 8.41% 7.69% 7.54% 7.19% 7.00% **Days Without Corrections** 9 Days without corrections in the month 14 20 11 9 8 6 12 12 14 19 15 Days without corrections vear-to-date 34 45 54 62 68 77 89 14 101 115 134 149



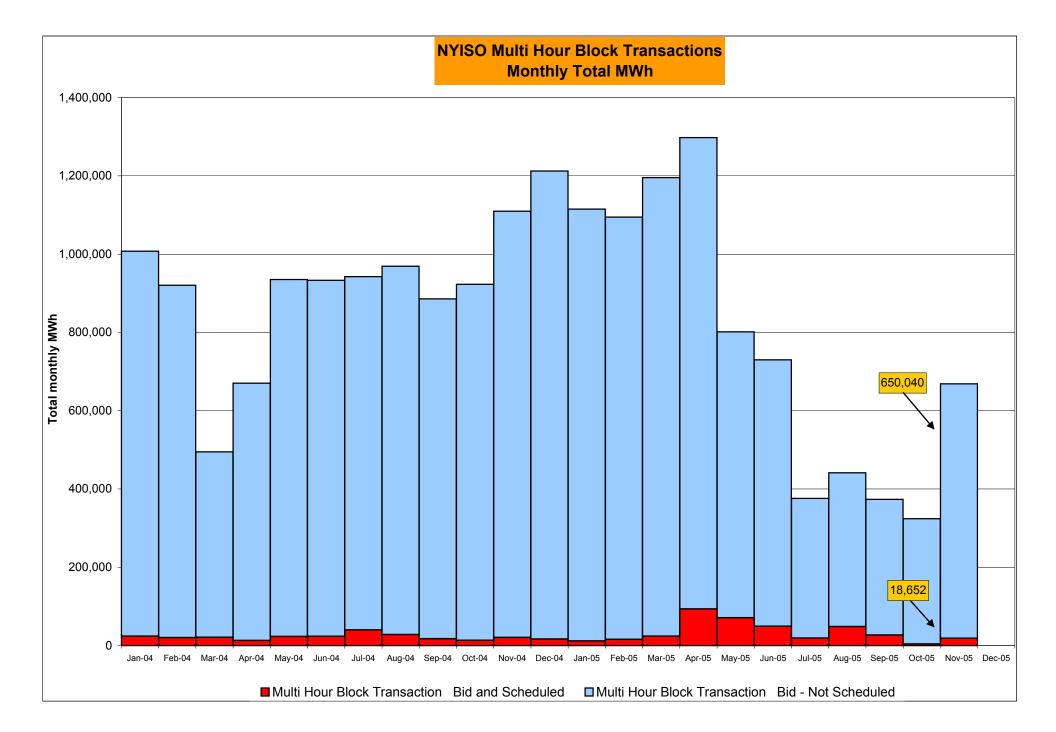


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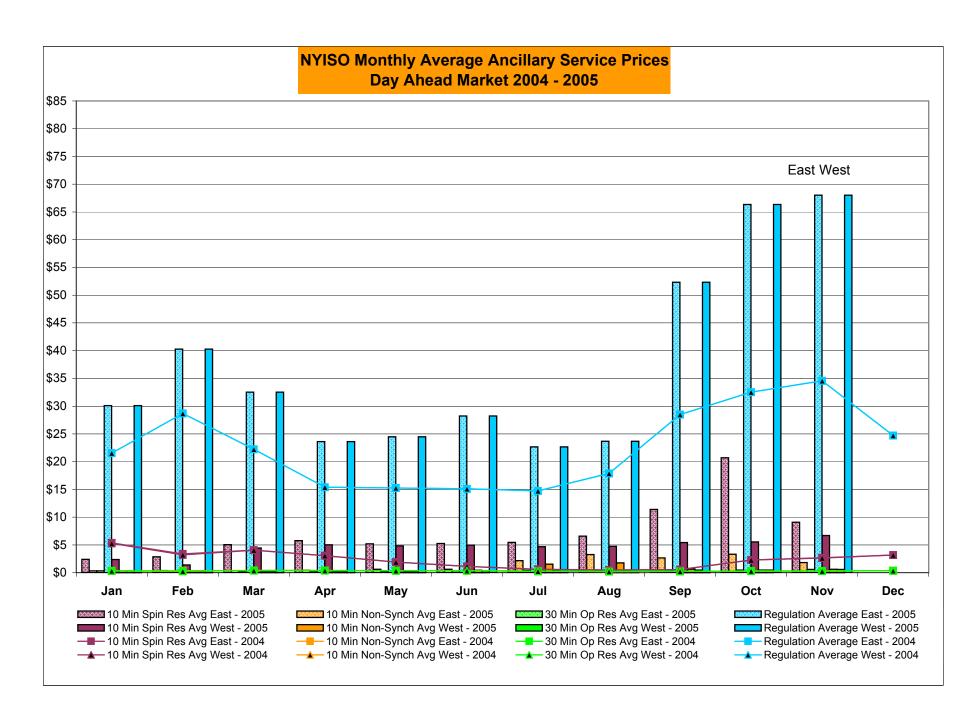


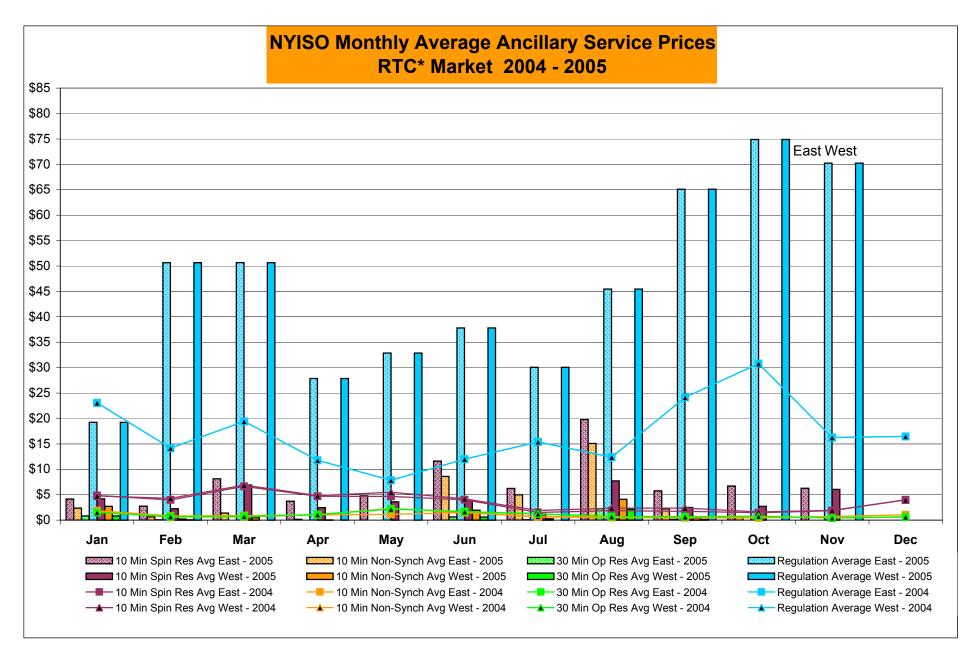
Market Monitoring

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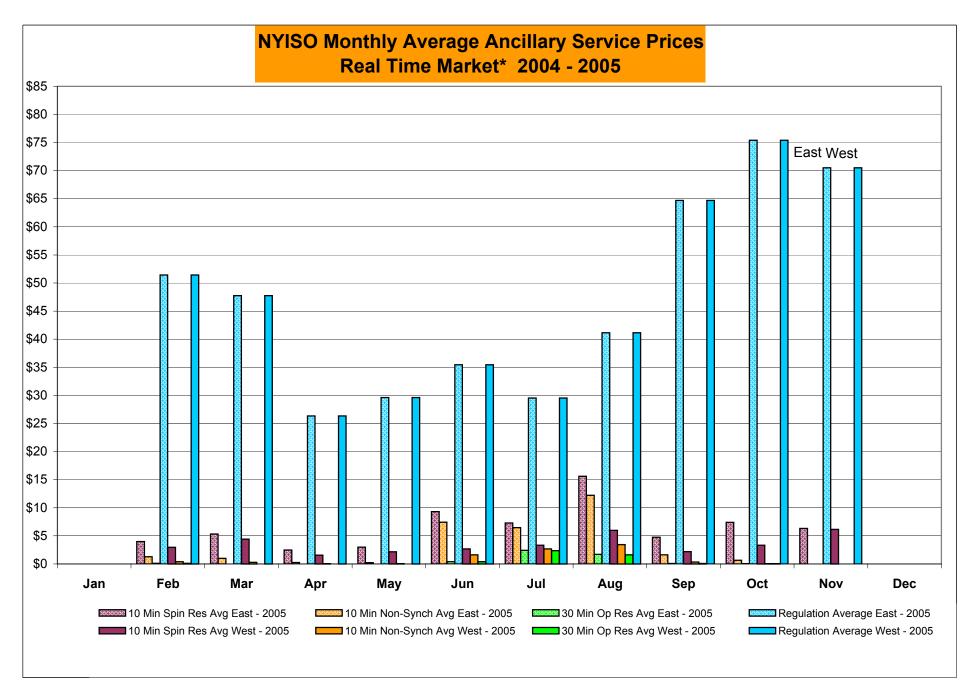


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<sup>\*</sup> Referred to as RTC beginning February 2005 Prior to February 2005 known as BME or Hour Ahead Market (HAM)



<sup>\*</sup> The Real Time Ancillary Market began in February 2005

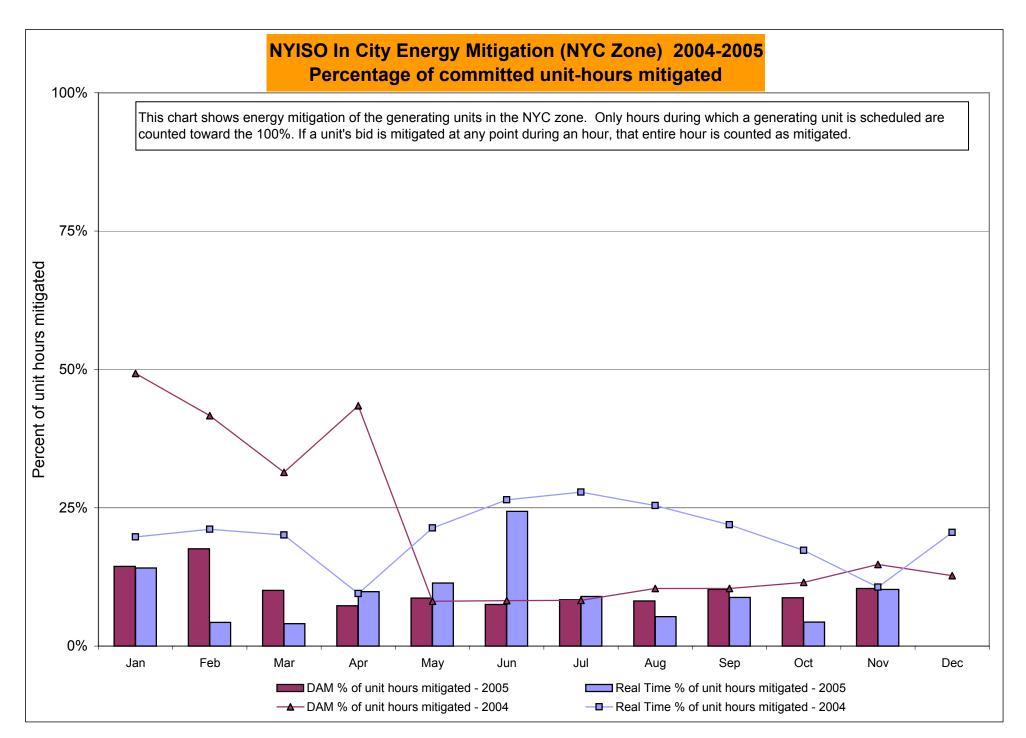
#### **NYISO Markets Ancillary Services Statistics**

#### ANCILLARY SERVICES Unweighted Price (\$/MWH) 2005

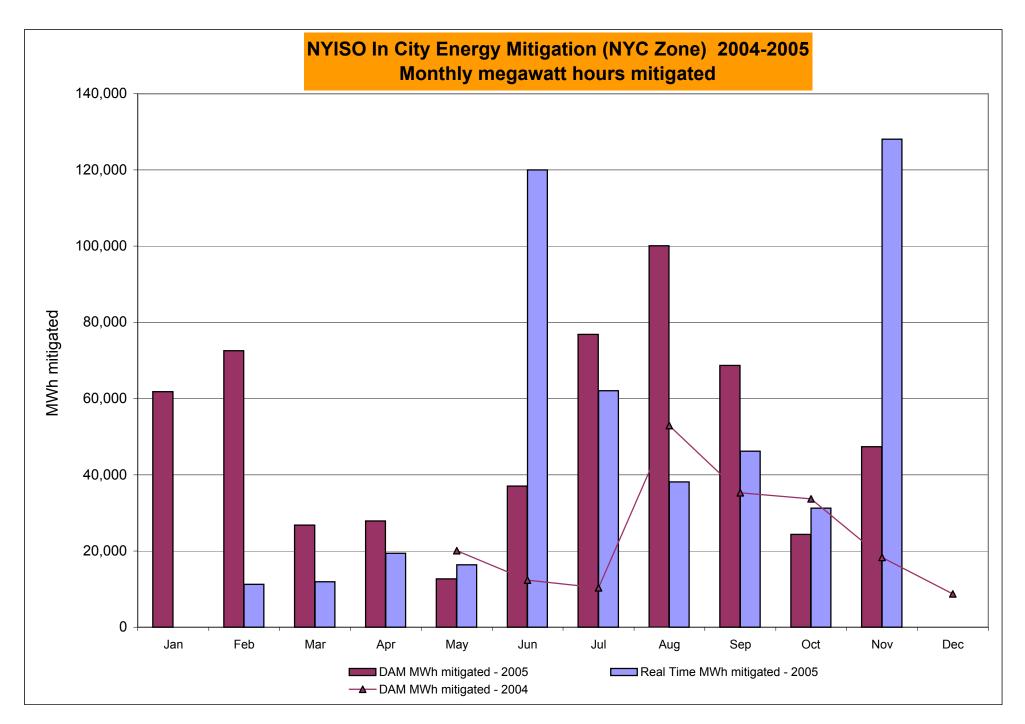
	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market					<del></del> -				-			
10 Min Spin East	2.38	2.87	5.06	5.76	5.19	5.26	5.44	6.59	11.38	20.70	9.08	
10 Min Spin West	2.37	1.39	4.43	5.03	4.80	4.96	4.68	4.73	5.41	5.54	6.68	
10 Min Non Synch East	0.31	0.37	0.31	0.44	0.60	0.61	2.16	3.25	2.65	3.31	1.82	
10 Min Non Synch West	0.31	0.13	0.20	0.24	0.23	0.43	1.54	1.75	0.63	0.47	0.59	
30 Min East	0.31	0.13	0.19	0.24	0.22	0.29	0.41	0.44	0.47	0.46	0.57	
30 Min West	0.31	0.13	0.19	0.24	0.22	0.29	0.41	0.44	0.47	0.46	0.57	
Regulation East	30.10	40.28	32.53	23.61	24.49	28.23	22.66	23.67	52.33	66.33	68.02	
Regulation West	30.10	40.28	32.53	23.61	24.49	28.23	22.66	23.67	52.33	66.33	68.02	
RTC* Market												
10 Min Spin East	4.15	2.75	8.13	3.71	4.80	11.61	6.23	19.80	5.75	6.72	6.25	
10 Min Spin West	4.20	2.23	6.90	2.46	3.58	3.84	1.24	7.72	2.50	2.69	6.06	
10 Min Non Synch East	2.35	0.62	1.38	0.14	0.00	8.58	4.96	15.08	2.22	0.44	0.00	
10 Min Non Synch West	2.72	0.21	0.47	0.03	0.00	1.96	0.25	4.09	0.37	0.00	0.00	
30 Min East	0.83	0.05	0.00	0.00	0.00	0.62	0.08	2.22	0.12	0.00	0.00	
30 Min West	0.83	0.05	0.00	0.00	0.00	0.61	0.00	2.15	0.12	0.00	0.00	
Regulation East	19.23	50.66	50.65	27.85	32.87	37.80	30.07	45.47	65.10	74.90	70.23	
Regulation West	19.23	50.66	50.65	27.85	32.87	37.80	30.07	45.47	65.10	74.90	70.23	
•												
Real Time Market**		0.00	5.04	0.47	0.00	0.00	7.00	45.00	4.75	7.40	0.00	
10 Min Spin East	-	3.99	5.34	2.47	3.00	9.30	7.30	15.60	4.75	7.40	6.32	
10 Min Spin West	-	2.97	4.42	1.56	2.16	2.69	3.33	5.99	2.19	3.34	6.16	
10 Min Non Synch East	-	1.27	0.98	0.25	0.24	7.43	6.46	12.22	1.63	0.65	0.00	
10 Min Non Synch West	-	0.41	0.29	0.02	0.07	1.63	2.68	3.44	0.33	0.01	0.00	
30 Min East	-	0.12	0.00	0.00	0.00	0.40	2.43	1.71	0.09	0.01	0.00	
30 Min West	-	0.11	0.00	0.00	0.00	0.40	2.36	1.61	0.09	0.01	0.00	
Regulation East	-	51.41	47.74	26.33	29.62	35.47	29.52	41.14	64.70	75.41	70.52	
Regulation West	-	51.41	47.74	26.33	29.62	35.47	29.52	41.13	64.70	75.41	70.52	
ANCILLARY SERVICES Unweighte	ed Price (\$/MV	NH) 2004										
	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market					<del></del>							
10 Min Spin East	5.35	3.36	4.05	3.04	1.91	1.11	0.60	0.49	0.55	2.28	2.69	3.17
10 Min Spin West	5.29	3.20	4.05	3.04	1.90	1.11	0.58	0.47	0.54	2.27	2.63	3.16
10 Min Non Synch East	0.33	0.33	0.39	0.38	0.34	0.35	0.27	0.21	0.23	0.30	0.30	0.35
10 Min Non Synch West	0.32	0.27	0.39	0.38	0.33	0.35	0.26	0.20	0.22	0.29	0.29	0.34
30 Min East	0.32	0.27	0.39	0.38	0.33	0.35	0.26	0.20	0.22	0.29	0.29	0.34
30 Min West	0.32	0.27	0.39	0.38	0.33	0.35	0.26	0.20	0.22	0.29	0.29	0.34
Regulation East	21.54	28.69	22.23	15.41	15.26	15.10	14.74	17.88	28.50	32.51	34.56	24.71
Regulation West	21.54	28.69	22.23	15.41	15.26	15.10	14.74	17.88	28.50	32.51	34.56	24.71
RTC* Market												
10 Min Spin East	4.84	3.96	6.65	4.69	4.67	3.99	1.51	1.87	1.75	1.45	1.86	3.99
10 Min Spin East 10 Min Spin West	4.04 4.75	3.96 4.27	6.89	4.82	4.67 5.48	3.99 4.20	1.90	2.36	2.36	1.45	1.92	3.99 3.95
10 Min Spin West 10 Min Non Synch East	4.75 1.85	4.27 0.81	0.89	4.82 1.05	5.48 1.14	4.20 1.49	0.62	0.49	2.36 0.45	0.45	0.71	3.95 1.03
,			0.87		2.31			0.49		0.45		0.62
10 Min Non Synch West 30 Min East	1.71	0.60 0.70	0.64	1.06 1.06	2.31	1.49 1.67	0.73	0.61	0.60		0.50	
	1.51						1.23		0.67	0.76 0.76	0.45	0.63
30 Min West	1.51 23.07	0.70 14.18	0.72 19.41	1.06 11.78	2.20 7.85	1.67 11.98	1.23 15.38	0.71 12.36	0.67 24.14	30.79	0.45	0.63 16.45
Regulation East Regulation West		14.18 14.18	19.41	11.78	7.85 7.85	11.98	15.38	12.36		30.79	16.24 16.24	16.45
	23.07								24.14			

<sup>\*</sup> Referred to as RTC beginning February 2005 Prior to February 2005 known as BME or Hour Ahead Market (HAM)

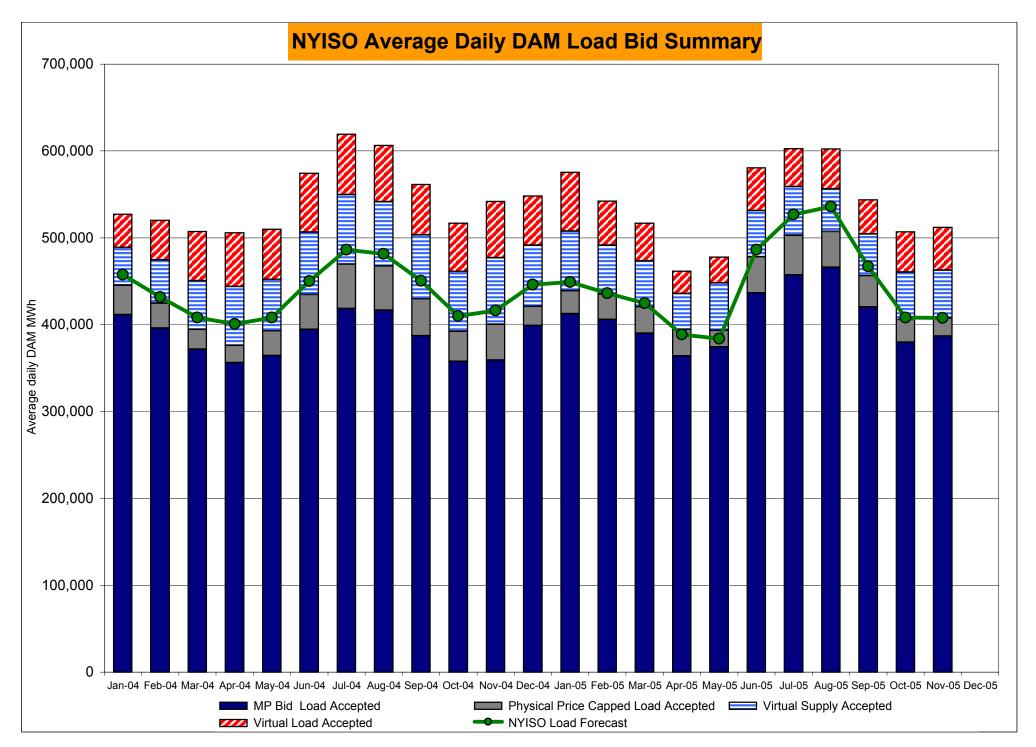
<sup>\*\*</sup> The Real Time Ancillary Market began in February 2005



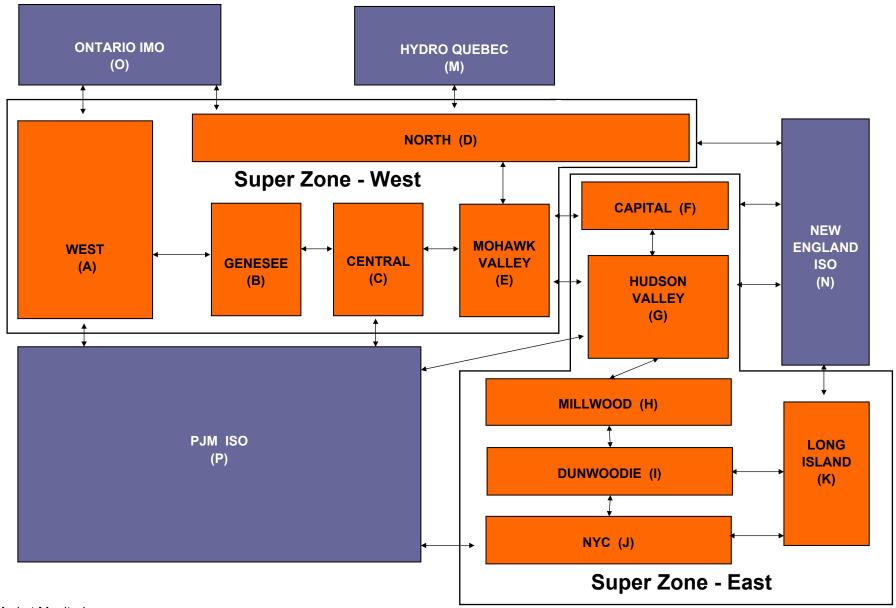
DAM Mitigation software change deployed on 5/1/2004



RT mitigation data available with SMD2 deployment DAM mitigation software change deployed on 5/1/2004



# NYISO LBMP ZONES



Market Monitoring

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#### **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 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

<sup>\*</sup> Effective November 2005 codes 81305 and 81312 have been re-categorized from BPCG Balancing to Residuals Balancing so as to better reflect their uplift type. All months have been adjusted accordingly.

#### **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 Balancing	81305	Balancing Market Congestion Balancing
Bid Production Cost Guarantee Balancing	81312	Balancing Market Congestion Balancing
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 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	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	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

<sup>\*</sup> This chart reflects the billing code categories that were in effect prior to the November 2005 re-categorization and is meant for comparison purposes only.