

## **NYISO President's Report**

Business Issues Committee June 15, 2004

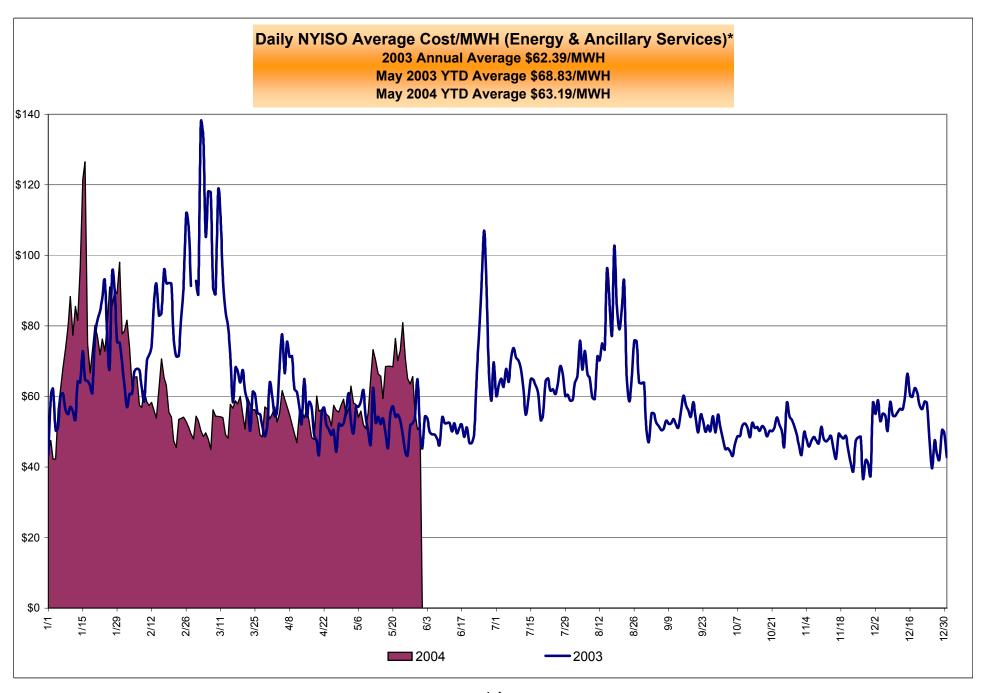
Agenda # 4

## **Report Items**

- Market Performance Highlights
- SMD2 What's next?

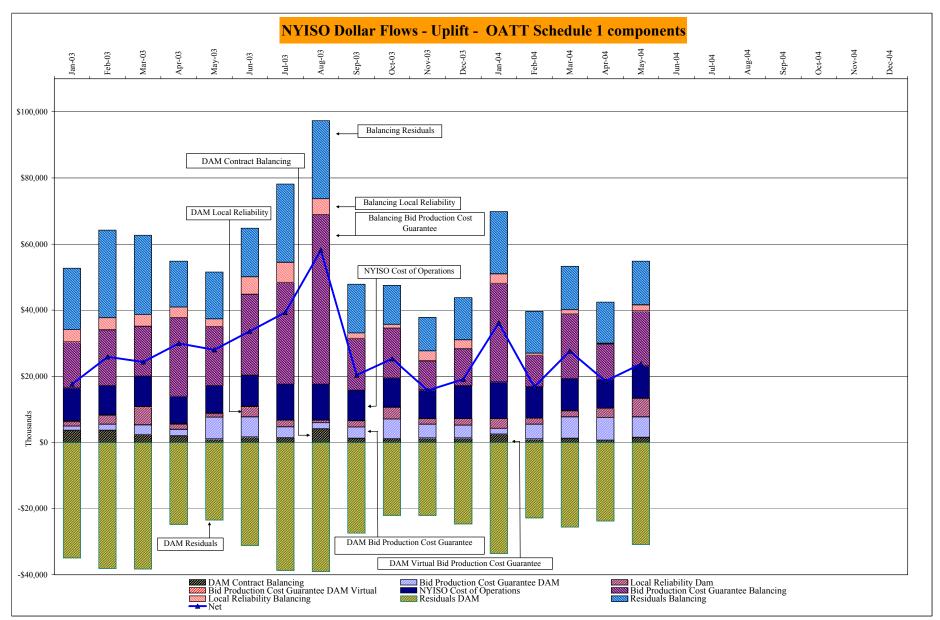
# Market Performance Highlights for May, 2004

- Higher LBMP's have led to an increase in the NYISO Average Cost from \$55.14/MWh in April to \$63.92/MWh in May. This is due to primarily to higher loads and high fuel prices.
- The Average Monthly Prices of all fuels are up relative to last month and up relative to last year. For example, natural gas is \$6.81/mmBTU this month, up 9% from last month and 10% from May 2003.
- A DAM Mitigation software change was deployed May 1<sup>st</sup>. This has led to a decrease in the percent of DAM committed unit hours mitigated in NYC from 43% last month, to 8% this month(66% in May 2003).
- Sporadic difficulties with the legacy system have resulted in an increase in price reservations and corrections for May. Market Performance Highlights



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

2004	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	76.13	57.11	50.60	52.49	61.24							
NTAC	0.47	0.42	0.55	0.51	0.42							
Reserve	0.27	0.14	0.20	0.17	0.14							
Regulation	0.18	0.31	0.25	0.13	0.11							
NYISO Cost of Operations	0.73	0.73	0.73	0.73	0.73							
Uplift	1.57	0.47	1.25	0.76	0.93							
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36							
Avg Monthly Cost	79.72	59.54	53.94	55.14	63.92							
Avg YTD Cost	79.72	70.68	65.28	63.02	63.19							
2003	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	66.34	76.59	78.31	54.28	49.77	57.37	60.10	68.14	50.82	47.05	43.37	52.19
NTAC	0.42	0.36	0.67	0.46	0.45	0.40	0.54	0.37	0.25	0.29	0.52	0.37
Reserve	0.47	0.35	0.45	0.40	0.47	0.25	0.15	0.22	0.13	0.10	0.18	0.16
Regulation	0.27	0.28	0.39	0.32	0.65	0.32	0.19	0.18	0.33	0.51	0.46	0.25
NYISO Cost of Operations	0.70	0.69	0.69	0.69	0.69	0.70	0.70	0.70	0.70	0.70	0.69	0.70
Uplift	0.30	1.09	0.95	1.69	1.51	1.70	1.79	2.73	0.77	1.21	0.45	0.57
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	0.34	0.34
Avg Monthly Cost	68.83	79.71	81.81	58.18	53.89	61.08	63.82	72.68	53.35	50.20	46.01	54.58
Avg YTD Cost	68.83	74.02	76.58	72.21	68.83	67.45	66.80	67.72	66.19	64.70	63.14	62.39



DAM Contract Balancing amounts are for payments made to generating units go 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).

#### **NYISO Markets Transactions**

Fransactions by Market 2004	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWH	14,614,304	12,806,346	12,836,889	11,818,317	13,026,160							
DAM LSE Internal LBMP Energy Sales	52%	50%	51%	51%	47%							
DAM External TC LBMP Energy Sales	4%	2%	3%	3%	4%							
DAM Bilateral - Internal Bilaterals	41%	45%	44%	44%	46%							
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	1%	1%	0%	0%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	1%	1%	1%							
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%	1%							
Balancing Energy Market MWH	367,460	269,220	508,837	238,876	379,159							
Balancing Energy LSE Internal LBMP Energy Sales	66%	31%	61%	84%	30%							
Balancing Energy External TC LBMP Energy Sales	57%	78%	41%	38%	77%							
Balancing Energy Bilateral - Internal Bilaterals	-20%	0%	0%	-9%	3%							
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	1%	0%	0%	0%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	0%	1%	1%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-4%	-11%	-3%	-14%	-11%							
Transactions Summary												
LBMP	58%	54%	56%	55%	53%							
Internal Bilaterals	40%	44%	42%	43%	45%							
Import Bilaterals	1%	1%	1%	0%	0%							
Export Bilaterals	1%	1%	1%	1%	1%							
Wheels Through	1%	0%	1%	0%	1%							
Market Share of Total Load												
Day Ahead Market	97.5%	97.9%	96.2%	98.0%	97.2%							
Balancing Energy +	2.5%	2.1%	3.8%	2.0%	2.8%							
Total MWH		13,075,566	13,345,726		13,405,319							
Average Daily Energy Sendout/Month GWh	464	440	416	393	408							
Transactions by Market 2003	44 407 750	10.005.000	10 100 500	44 007 055	10,000,450	10.011.001	45 444 057	45.750.000	40,000,000	40.507.700	10 000 150	10.070.000
Day Ahead Market MWH	14,187,752	12,695,868	13,126,563	11,997,655	12,029,453	13,341,831	15,444,857	15,759,082	13,003,309	12,507,780	12,332,456	13,973,266
DAM LSE Internal LBMP Energy Sales	46%	48%	46%								470/	400/
	40/	40/		49%	46%	48%	55%	57%	49%	48%	47%	48%
DAM External TC LBMP Energy Sales	1%	1%	1%	1%	2%	2%	1%	0%	1%	2%	2%	2%
DAM Bilateral - Internal Bilaterals	50%	49%	1% 50%	1% 46%	2% 49%	2% 46%	1% 43%	0% 40%	1% 48%	2% 47%	2% 48%	2% 46%
DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	50% 1%	49% 1%	1% 50% 1%	1% 46% 1%	2% 49% 0%	2% 46% 0%	1% 43% 0%	0% 40% 0%	1% 48% 0%	2% 47% 0%	2% 48% 0%	2% 46% 0%
DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	50% 1% 1%	49% 1% 1%	1% 50% 1% 2%	1% 46% 1% 1%	2% 49% 0% 1%	2% 46% 0% 1%	1% 43% 0% 1%	0% 40% 0% 1%	1% 48% 0% 1%	2% 47% 0% 1%	2% 48% 0% 1%	2% 46% 0% 1%
DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	50% 1% 1% 1%	49% 1% 1% 1%	1% 50% 1% 2% 1%	1% 46% 1% 1% 2%	2% 49% 0% 1% 2%	2% 46% 0% 1% 2%	1% 43% 0% 1% 1%	0% 40% 0% 1% 1%	1% 48% 0% 1% 1%	2% 47% 0% 1% 1%	2% 48% 0% 1% 1%	2% 46% 0% 1% 2%
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DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWH  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales	50% 1% 1% 1% 247,539 58% 58%	49% 1% 1% 19 285,381 35% 80%	1% 50% 1% 2% 1% 376,222 52% 95%	1% 46% 1% 1% 2% 235,800 72% 73%	2% 49% 0% 1% 2% 278,939 48% 69%	2% 46% 0% 1% 2% 291,519 39% 78%	1% 43% 0% 1% 19 208,142 53% 79%	0% 40% 0% 1% -55,913 -146% 242%	1% 48% 0% 1% 19 394,363 65% 44%	2% 47% 0% 1% 18 338,562 53% 61%	2% 48% 0% 1% 19 319,065 26% 77%	2% 46% 0% 1% 2% 385,707 43% 68%
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DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWH Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary LBMP Internal Bilaterals	50% 1% 1% 1% 347,539 58% -6% 4% 0% -14%	49% 1% 1% 1% 285,381 35% 80% -10% 1% 0% -7%	1% 50% 1% 2% 376,222 52% 95% -2% 1% -38% -8%	1% 46% 1% 1% 2% 235,800 72% 73% 0% 1% 0% -46%	2% 49% 0% 1% 2% 278,939 48% 69% -5% 1% 0% -14%	2% 46% 0% 1% 291,519 39% 78% 0% 0% -23%	1% 43% 0% 1% 1% 208,142 53% 79% -2% 0% 0% -31%	0% 40% 0% 1% -55,913 -146% 242% -75% 2% -144% -109%	1% 48% 0% 1% 1% 394,363 65% 44% 0% 0% -10%	2% 47% 0% 1% 18 338,562 53% 61% 0% 0% -16%	2% 48% 0% 1% 319,065 26% 77% 0% 0% -3%	2% 46% 0% 1% 2% 385,707 43% 68% -2% 0% 0% -9%
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DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWH  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals	50% 1% 1% 1% 347,539 58% -6% 4% 0% -14% 49% 48% 1%	49% 1% 1% 1% 285,381 35% 80% -10% -7%  50% 47% 1% 1%	1% 50% 1% 2% 1% 376,222 52% 95% -2% 1% -38% -8% 49% 48% 1% 1%	1% 46% 1% 1% 2% 235,800 72% 73% 0% 1% 0% -46% 52% 45% 1% 1%	2% 49% 0% 1% 2% 278,939 48% 69% -5% 1% 0% -14% 49% 48% 0% 1%	2% 46% 0% 1% 291,519 39% 5% 0% -23% 52% 46% 0% 1%	1% 43% 0% 1% 1% 208,142 53% -2% 0% -31% 56% 42% 0% 1%	0% 40% 0% 1% 1% -55,913 -146% 242% -75% 2% -144% -109% 58% 40% 0% 1%	1% 48% 0% 1% 1% 394,363 65% 44% 0% -10% 51% 46% 0% 1%	2% 47% 0% 1% 1% 338,562 53% 61% 3% 0% -16% 52% 46% 0% 1%	2% 48% 0% 1% 1% 319,065 26% 77% 0% 0% -3%	2% 46% 0% 1% 2% 385,707 43% 68% -2% 0% -9% 52% 45% 0%
DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWH Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through	50% 1% 1% 1% 347,539 58% -6% 4% 0% -14% 49% 48% 1%	49% 1% 1% 1% 285,381 35% 80% -10% -7%  50% 47% 1% 1%	1% 50% 1% 2% 1% 376,222 52% 95% -2% 1% -38% -8% 49% 48% 1% 1%	1% 46% 1% 1% 2% 235,800 72% 73% 0% 1% 0% -46% 52% 45% 1% 1%	2% 49% 0% 1% 2% 278,939 48% 69% -5% 1% 0% -14% 49% 48% 0% 1%	2% 46% 0% 1% 291,519 39% 5% 0% -23% 52% 46% 0% 1%	1% 43% 0% 1% 1% 208,142 53% -2% 0% -31% 56% 42% 0% 1%	0% 40% 0% 1% 1% -55,913 -146% 242% -75% 2% -144% -109% 58% 40% 0% 1%	1% 48% 0% 1% 1% 394,363 65% 44% 0% -10% 51% 46% 0% 1%	2% 47% 0% 1% 1% 338,562 53% 61% 3% 0% -16% 52% 46% 0% 1%	2% 48% 0% 1% 1% 319,065 26% 77% 0% 0% -3%	2% 46% 0% 1% 2% 385,707 43% 68% -2% 0% -9% 52% 45% 0%
DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWH Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through Market Share of Total Load	50% 1% 1% 1% 347,539 58% -6% 4% 0% -14% 49% 48% 1% 1%	49% 1% 1% 1% 285,381 35% 80% -10% -7%  50% 47% 1% 1%	1% 50% 1% 2% 1% 376,222 52% 95% -2% 1% -38% -8%	1% 46% 1% 1% 2% 235,800 72% 73% 0% 1% -46% 52% 45% 1% 1%	2% 49% 0% 1% 2% 278,939 48% 69% -5% 1% 0% -14%	2% 46% 0% 1% 291,519 39% 78% 5% 0% -23% 52% 46% 0% 1%	1% 43% 0% 1% 1% 208,142 53% 79% -2% 0% -31% 56% 42% 0% 1%	0% 40% 0% 1% 1% -55,913 -146% 242% -75% 2% -144% -109% 58% 40% 0% 1%	1% 48% 0% 1% 1% 394,363 65% 44% 0% -10% 51% 46% 0% 1% 0%	2% 47% 0% 1% 1% 338,562 53% 61% 0% -16% 52% 46% 0% 1%	2% 48% 0% 1% 19,065 26% 77% 0% 0% -3% 51% 47% 0% 1%	2% 46% 0% 1% 2% 385,707 43% 68% -2% 0% -9% 52% 45% 0% 1% 2%
DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWH Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	50% 1% 1% 1% 347,539 58% -6% 4% 0% -14% 49% 48% 1% 1% 1% 2.4%	49% 1% 1% 1% 285,381 35% 80% -10% -7% 50% 47% 1% 1% 1%	1% 50% 1% 2% 1% 376,222 52% 95% -2% 1% -388% -8% 49% 48% 1% 1% 1%	1% 46% 1% 1% 2% 235,800 72% 73% 0% 1% 0% -46% 45% 1% 1% 1%	2% 49% 0% 1% 2% 278,939 48% 69% -5% 1% 0% -14% 49% 48% 0% 1%	2% 46% 0% 1% 291,519 39% 78% 5% 0% -23% 46% 0% 1% 1%	1% 43% 0% 1% 1% 208,142 53% 79% -2% 0% -31%  56% 42% 0% 1% 1%	0% 40% 0% 1% 1% -55,913 -146% 242% -75% 2% -144% -109% 58% 40% 0% 1% 100.4% -0.4%	1% 48% 0% 1% 1% 394,363 65% 44% 0% -10% 51% 46% 0% 1% 0% 2.9%	2% 47% 0% 1% 1% 338,562 53% 61% 3% 0% -166 52% 46% 0% 1% 1%	2% 48% 0% 1% 19,065 26% 77% 0% 0% -3% 51% 47% 0% 1% 1%	2% 46% 0% 1% 2% 385,707 43% 68% -2% 0% -9% 52% 45% 0% 1% 2%

<sup>+</sup> 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.

<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 2004 Energy Statistics**

	January	February	March	April	May	June	July	August September	October November	December
DAY AHEAD LBMP	•	•		•	•		•			
Price *	\$72.12	\$55.31	\$49.08	\$51.01	\$57.25					
Standard Deviation	\$25.99	\$14.40	\$10.90	\$11.42	\$16.72					
Load Wtg.Price **	\$75.01	\$56.90	\$50.44	\$52.50	\$59.89					
BME *** LBMP										
Price *	\$77.51	\$54.41	\$53.01	\$56.94	\$60.98					
Standard Deviation	\$37.54	\$15.73	\$16.25	\$18.41	\$23.58					
Load Wtg.Price **	\$80.51	\$55.89	\$54.71	\$58.89	\$64.14					
REAL TIME LBMP										
Price *	\$73.72	\$52.95	\$49.56	\$50.83	\$56.20					
Standard Deviation	\$32.61	\$15.04	\$17.75	\$14.15	\$25.74					
Load Wtg.Price **	\$76.85	\$54.33	\$51.27	\$52.36	\$59.61					
Average Daily Energy Sendout/Month GWh	464	440	416	393	408					

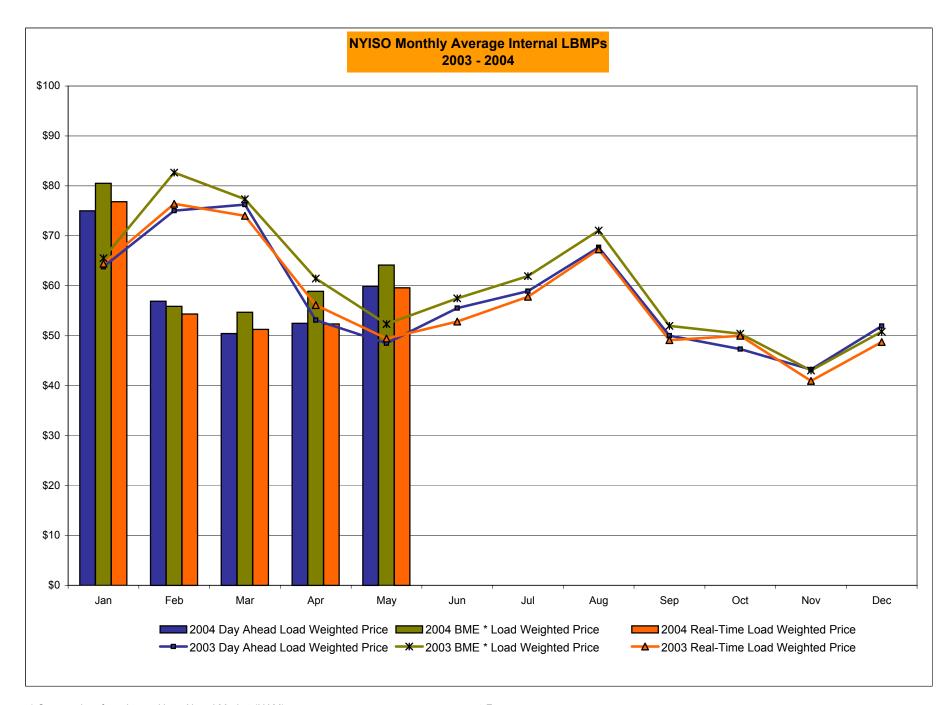
#### **NYISO Markets 2003 Energy Statistics**

	January	February	March	April	May	June	July	August	September	October	November	December
DAY AHEAD LBMP	•	-			_		-	•				
Price *	\$61.33	\$72.81	\$73.18	\$51.58	\$46.43	\$51.45	\$57.10	\$64.94	\$48.29	\$45.81	\$41.58	\$50.07
Standard Deviation	\$20.09	\$21.12	\$29.70	\$12.47	\$14.03	\$21.27	\$11.88	\$18.06	\$11.04	\$10.91	\$12.06	\$14.92
Load Wtg.Price **	\$63.81	\$75.03	\$76.25	\$53.14	\$48.47	\$55.52	\$58.93	\$67.71	\$50.02	\$47.34	\$43.21	\$51.95
BME *** LBMP_												
Price *	\$63.19	\$80.25	\$74.27	\$59.22	\$50.27	\$53.84	\$59.99	\$67.63	\$50.34	\$48.74	\$41.01	\$48.73
Standard Deviation	\$25.43	\$41.53	\$32.77	\$25.00	\$16.37	\$22.27	\$14.82	\$72.20	\$14.01	\$15.35	\$18.51	\$18.89
Load Wtg.Price **	\$65.54	\$82.65	\$77.33	\$61.45	\$52.31	\$57.49	\$61.94	\$71.07	\$51.96	\$50.39	\$43.05	\$50.81
REAL TIME LBMP												
Price *	\$61.53	\$74.03	\$70.54	\$53.94	\$46.74	\$48.96	\$55.94	\$64.32	\$47.24	\$48.57	\$38.72	\$46.45
Standard Deviation	\$30.16	\$37.46	\$37.97	\$28.70	\$23.03	\$21.57	\$13.68	\$34.91	\$15.52	\$25.74	\$22.35	\$20.55
Load Wtg.Price **	\$64.43	\$76.41	\$74.02	\$56.14	\$49.44	\$52.82	\$57.79	\$67.27	\$49.12	\$49.98	\$40.96	\$48.73
Average Daily Energy Sendout/Month GWh	458	450	418	393	382	432	497	498	433	397	402	435

<sup>\*</sup> Average zonal load weighted prices

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

\*\*\* Commonly referred to as Hour Ahead Market (HAM)



<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)

#### May 2004 Zonal Statistics for NYISO (\$/MWH)

	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
DAY AHEAD LBMP											
Unweighted Price *	45.55	48.11	49.83	49.57	50.97	54.13	54.70	54.87	55.62	62.45	68.83
Standard Deviation	13.29	13.89	14.00	14.37	14.65	15.12	16.04	16.48	16.81	20.99	16.02
BME ** LBMP											
Unweighted Price *	45.26	46.64	51.55	51.21	52.38	53.83	55.07	55.07	55.83	69.35	77.73
Standard Deviation	16.76	17.25	17.84	18.25	18.54	19.01	19.66	20.67	20.98	30.58	46.90
REAL TIME LBMP Unweighted Price * Standard Deviation	43.77 20.88	46.29 21.71	47.25 22.13	46.81 22.11	48.43 22.81	48.43 24.07	50.98 25.53	52.82 29.66		62.96 31.40	70.04 31.67
	ONTARIO IMO Zone O	HYDRO QUEBEC Zone M	PJM Zone P	NEW ENGLAND Zone N							
DAY AHEAD LBMP	20.10 0	20	_0	20.10 11							
Unweighted Price *	44.65	50.29	48.17	54.32							
Standard Deviation	12.91	14.47	14.88	15.47							
BME ** LBMP Unweighted Price *	44.05	70.75	50.40	55.59							

16.17

43.97

20.84

129.81

47.41

19.74

18.79

45.76

21.76

17.76

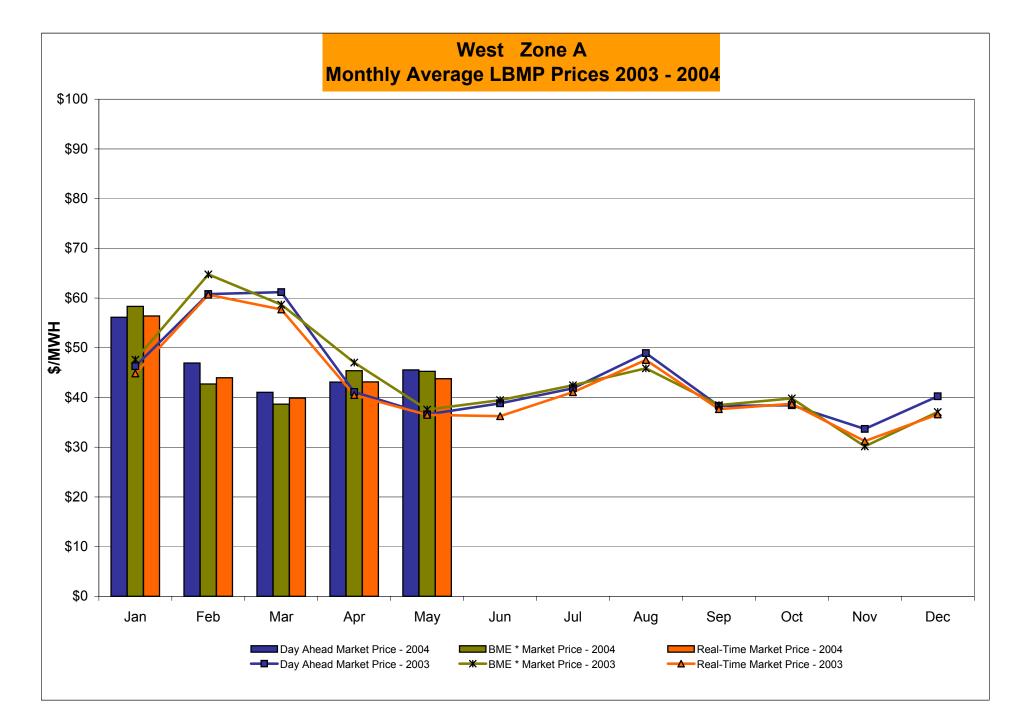
51.49

22.67

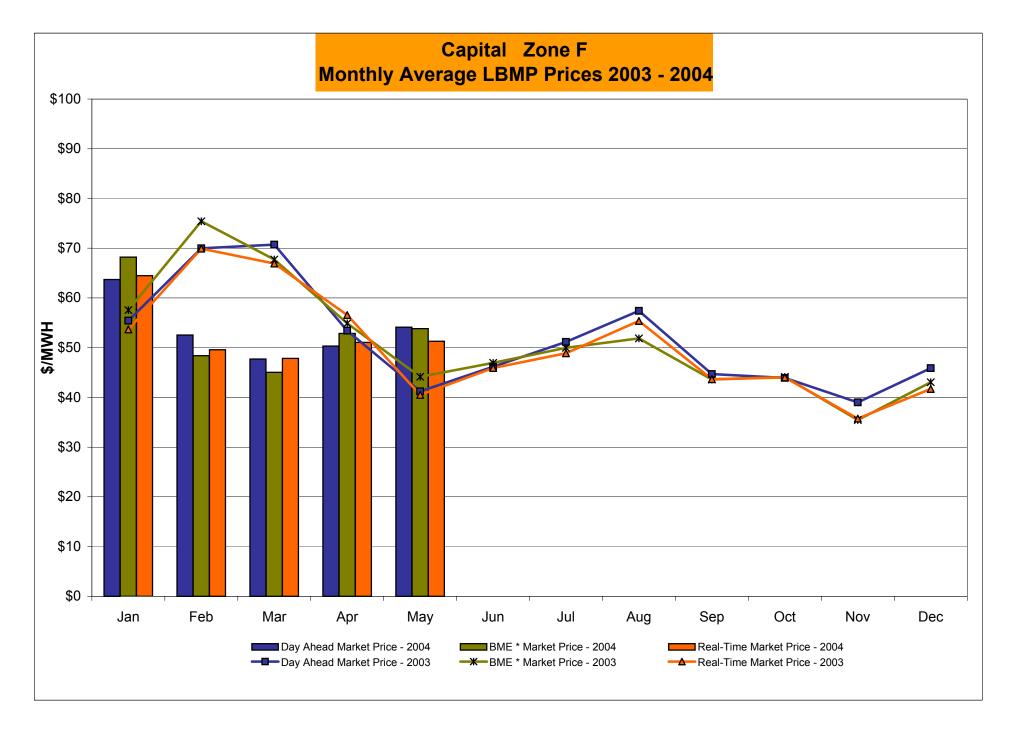
Standard Deviation

REAL TIME LBMP
Unweighted Price \*
Standard Deviation

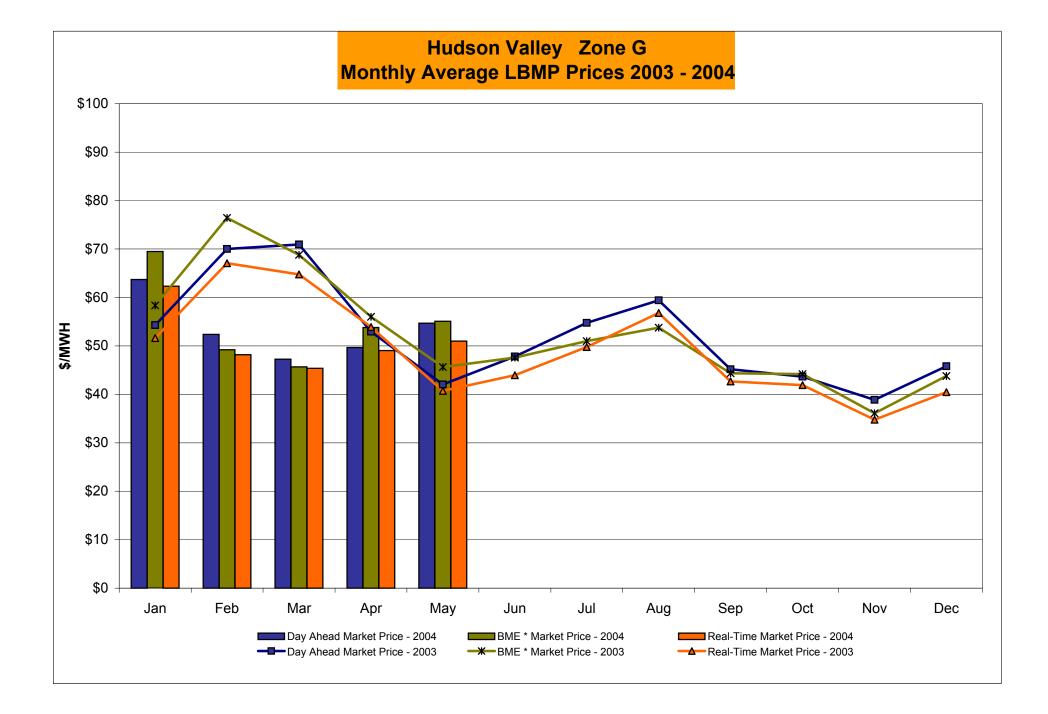
<sup>\*</sup> Straight zonal LBMP averages \*\* Commonly referred to as Hour Ahead Market (HAM)



<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)

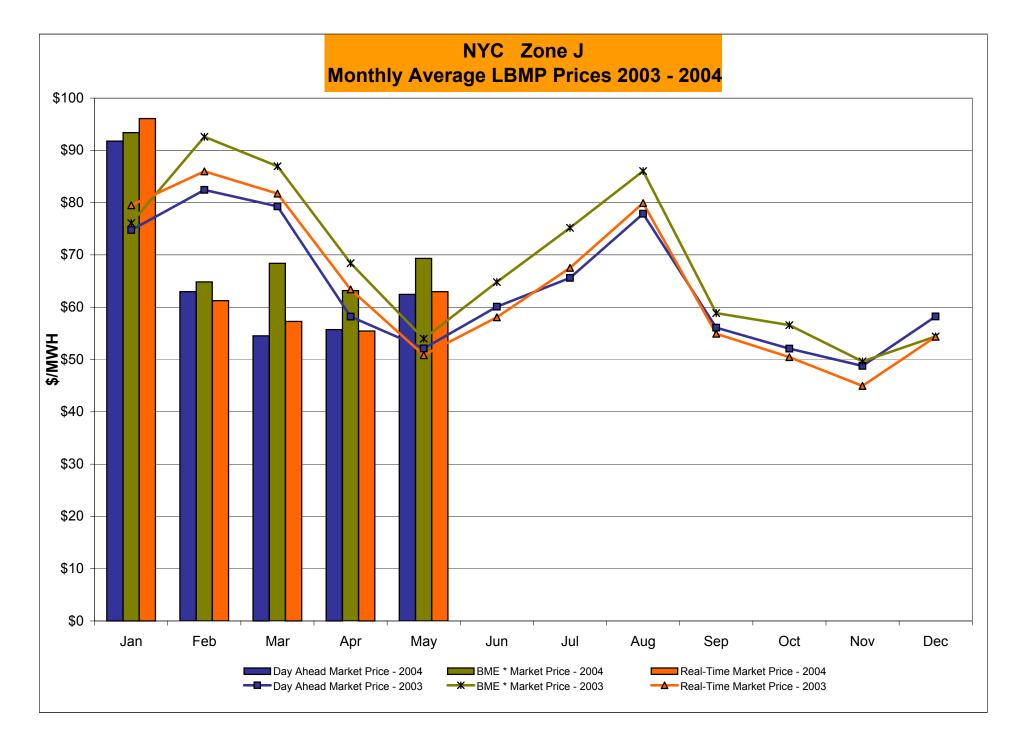


<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)

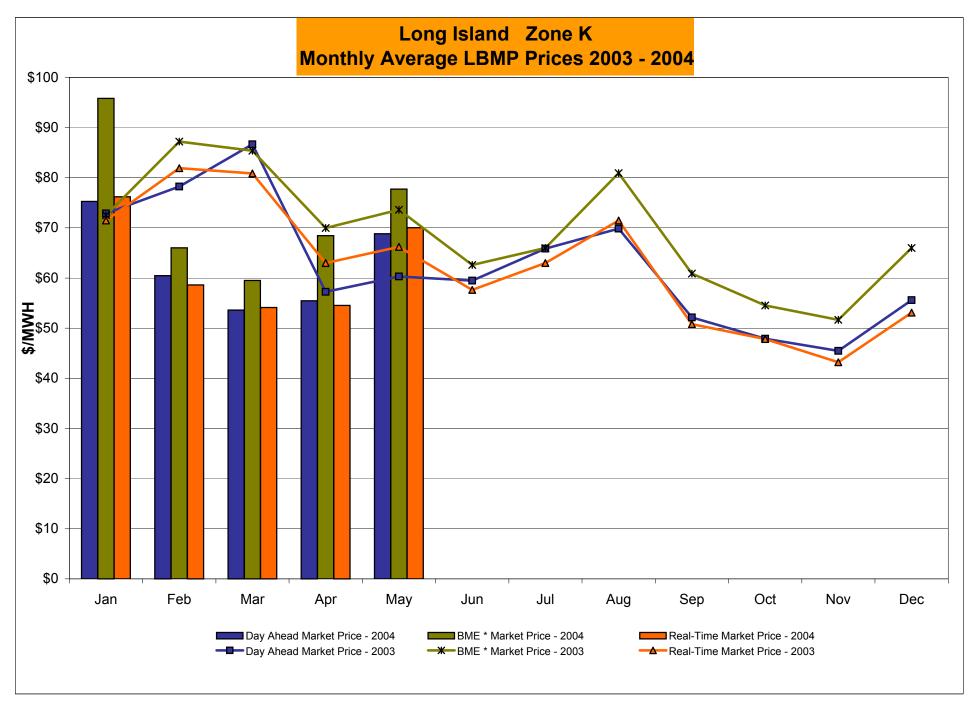


4-J

<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)

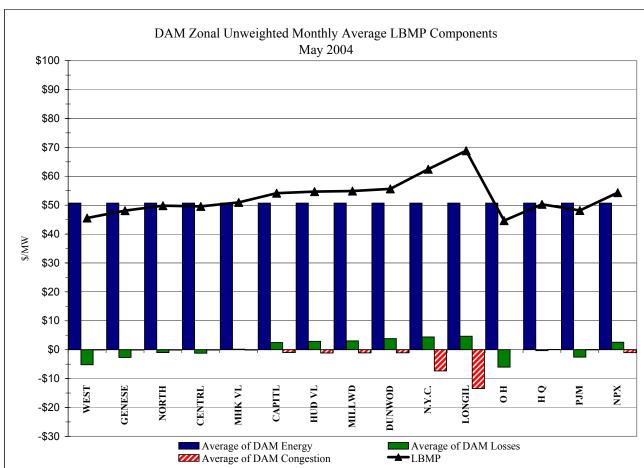


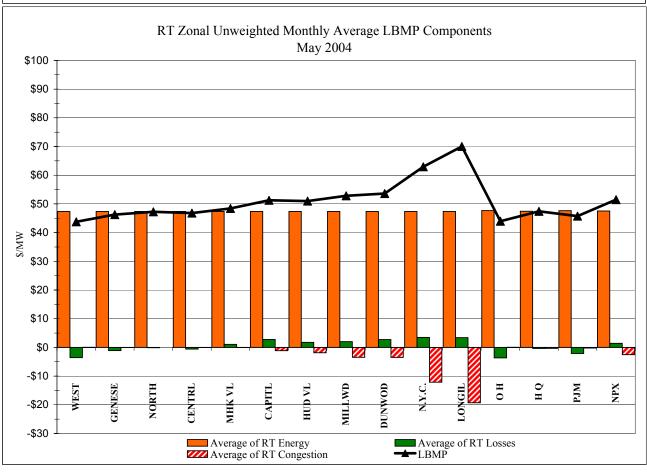
<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)



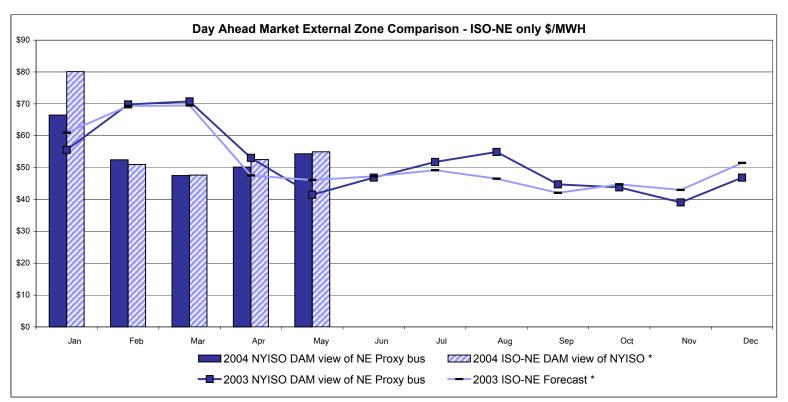
4-L

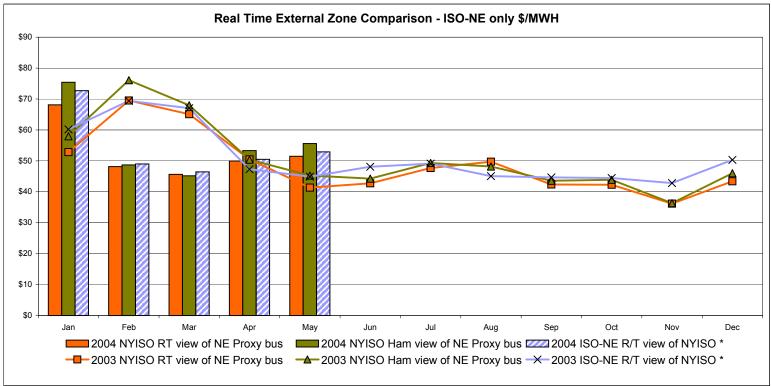
<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)





#### **External Comparison ISO-NE**



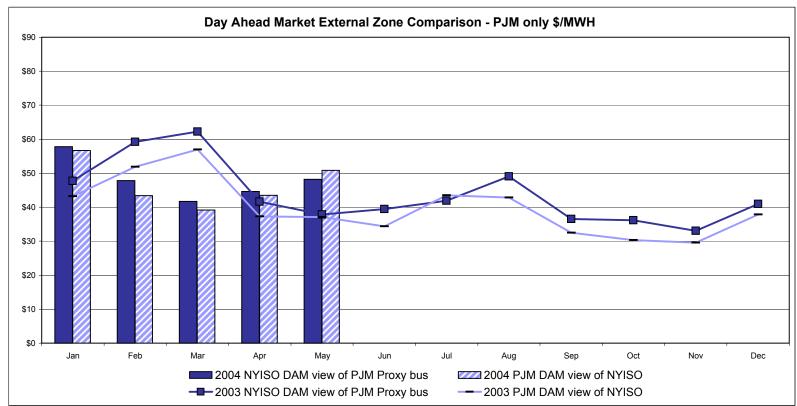


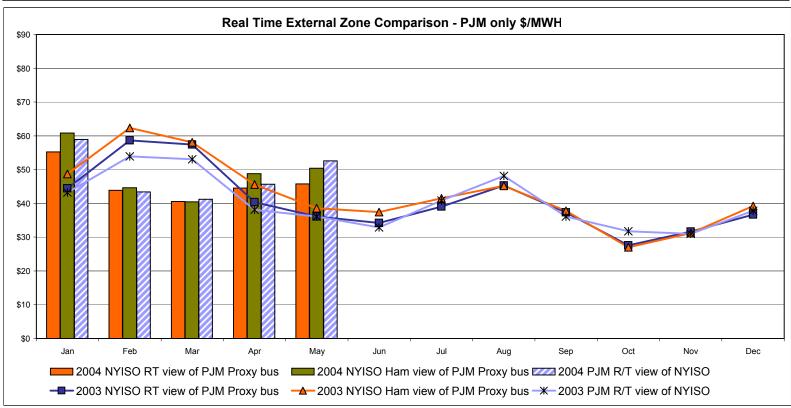
#### Note:

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

\* Effective 3/1/2003 SMD implemented by ISO-NE. The DAM and R/T prices at the Roseton interface are now used.

#### **External Comparison PJM**

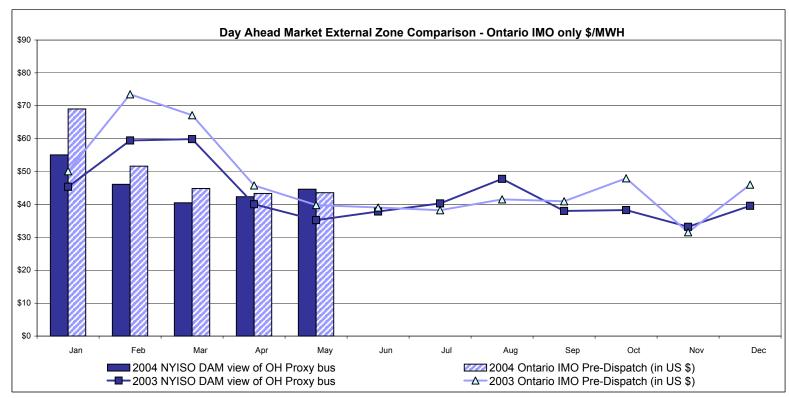


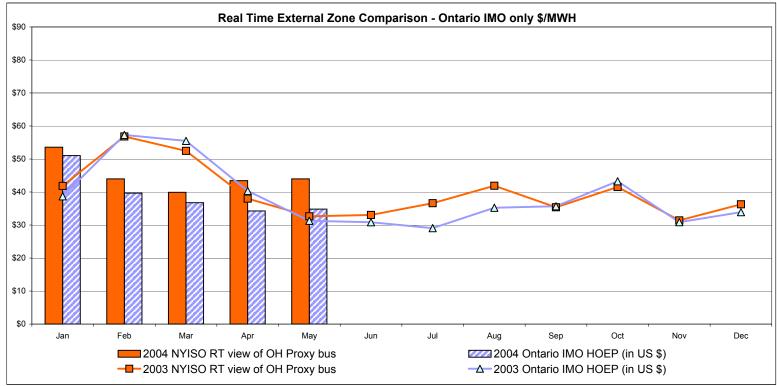


Note:

After 5/1/02 PJM lists only one interface as NYIS

#### **External Comparison Ontario IMO**





Notes: Exchange factor used for May 2004 was .73 to US \$

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

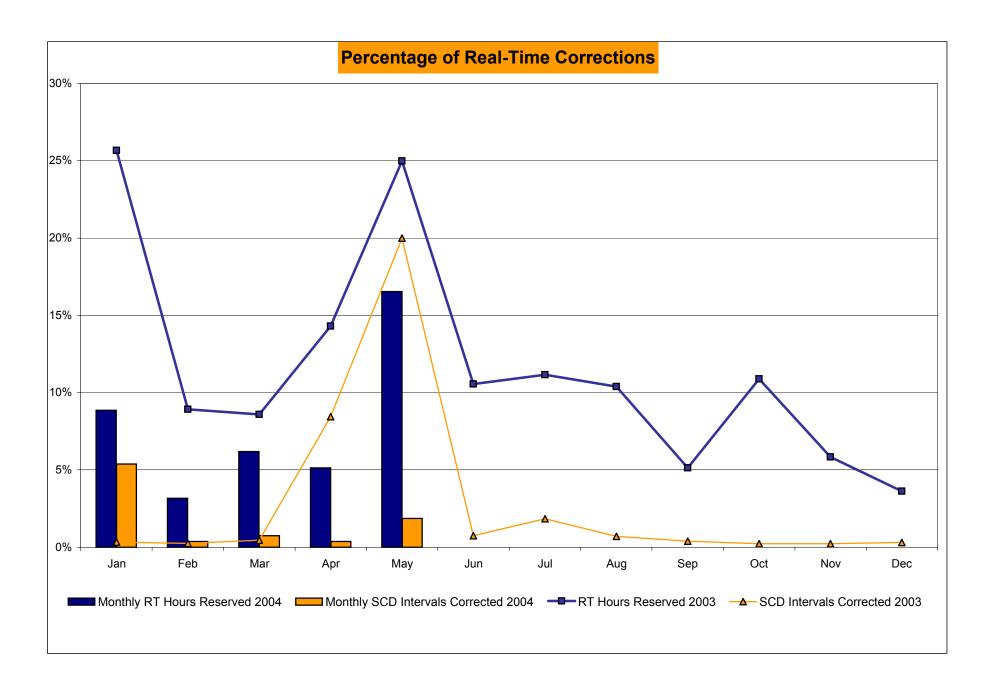
Pre-Dispatch data from 8/14/03 Hr 15 thru 8/21/03 not included

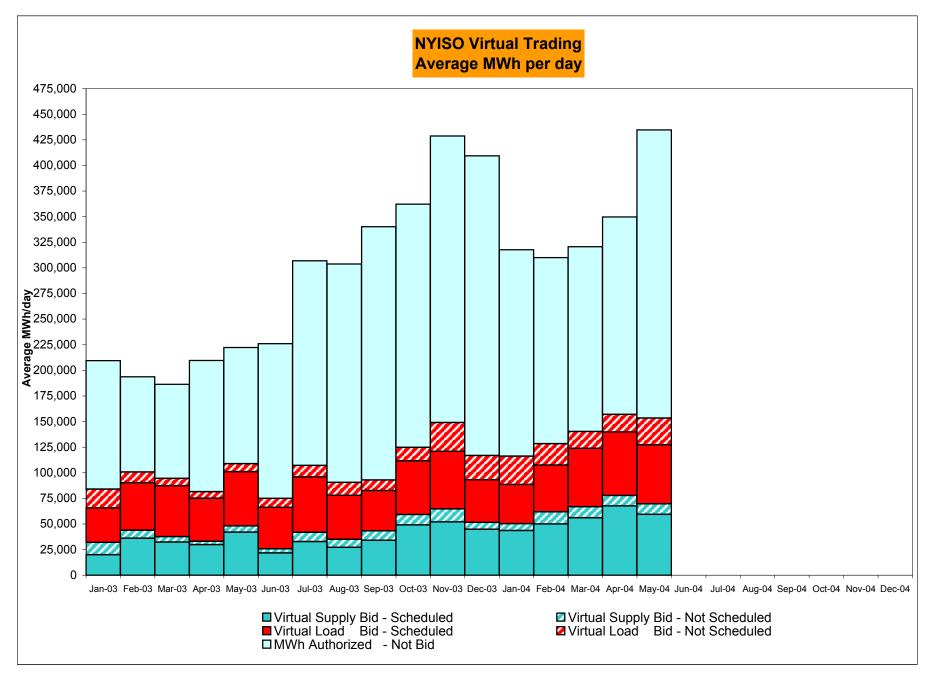
#### **NYISO Price Correction Statistics**

#### **NYISO Price Corrections 2004**

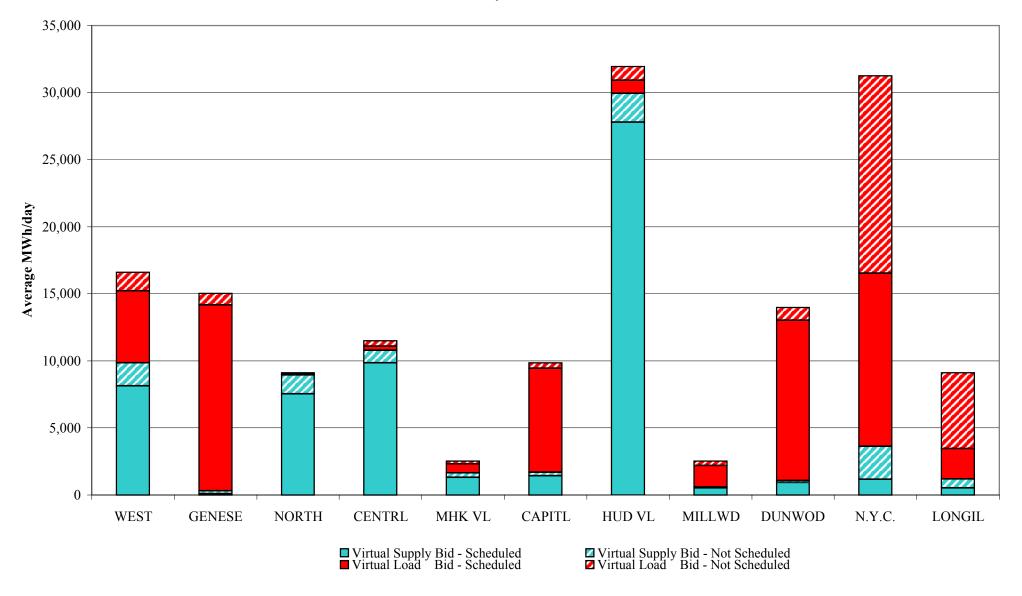
Interval Corrections	January	February	March	April	May	June	July	August	September	October	November	December
Number of Intervals corrected in the month	597	40	83	40	219							
Number of Intervals in the month	11,089	10,495	11,085	10,805	11,740							
Percentage of intervals corrected in the month	5.38%	0.38%	0.75%	0.37%	1.87%							
Number of Intervals corrected Year-to-date	597	637	720	760	979							
Number of Intervals Year-to-date	11,089	21,584	32,669	43,474	55,214							
Percentage of intervals corrected Year-to-date	5.38%	2.95%	2.20%	1.75%	1.77%							
Hours Reserved												
Number of hours reserved in the month	66	22	46	37	123							
Number of hours in the month	744	696	744	720	744							
Percentage of hours reserved in the month	8.87%	3.16%	6.18%	5.14%	16.53%							
Number of hours reserved Year-to-date	66	88	134	171	294							
Number of hours Year-to-date	744	1,440	2,184	2,904	3,648							
Percentage of hours reserved Year-to-date	8.87%	6.11%	6.14%	5.89%	8.06%							
Days Without Corrections												
Days without price corrections in the month	14	20	11	9	8							
Days without price corrections Year-to-date	14	34	45	54	62							
<b>NYISO Price Corrections 2003</b>												
Interval Corrections	January	February	March	April	May	June	July	August	September	October	November	December
Number of Intervals corrected in the month	36	25	49	891	2,254	79	202	71	41	25	25	34
Number of Intervals in the month	10,986	10,197	10,918	10,554	11,274	10,729	10,998	9,973	10,620	11,248	10,629	11,175
Percentage of intervals corrected in the month	0.32%	0.25%	0.45%	8.44%	19.99%	0.74%	1.84%	0.71%	0.39%	0.22%	0.24%	0.30%
Number of Intervals corrected Year-to-date	36	61	110	1,001	3,255	3,334	3,536	3,607	3,648	3,673	3,698	3,732
Number of Intervals Year-to-date	10,986	21,183	32,101	42,655	53,929	64,658	75,656	85,629	96,249	107,497	118,126	129,301
Percentage of intervals corrected Year-to-date	0.32%	0.28%	0.34%	2.35%	6.04%	5.16%	4.67%	4.21%	3.79%	3.42%	3.13%	2.89%
Hours Reserved												
Number of hours reserved in the month	191	60	64	103	186	76	83	69	37	81	42	27
Number of hours in the month	744	672	744	720	744	720	744	664 *	<b>*</b> 720	744	720	744
Percentage of hours reserved in the month	25.67%	8.93%	8.60%	14.31%	25.00%	10.56%	11.16%	10.39%	5.14%	10.89%	5.83%	3.63%
Number of hours reserved Year-to-date	191	251	315	418	604	680	763	832	869	950	992	1,019
Number of hours Year-to-date	744	1,416	2,160	2,880	3,624	4,344	5,088	5,752	6,472	7,216	7,936	8,680
Percentage of hours reserved Year-to-date	25.67%	17.73%	14.58%	14.51%	16.67%	15.65%	15.00%	14.46%	13.43%	13.17%	12.50%	11.74%
Days Without Corrections												
Days without price corrections in the month	17	15	14	9	8	8	7	5	9	17	15	14
Days without price corrections Year-to-date	17	32	46	55	63	71	78	83	92	109	124	138

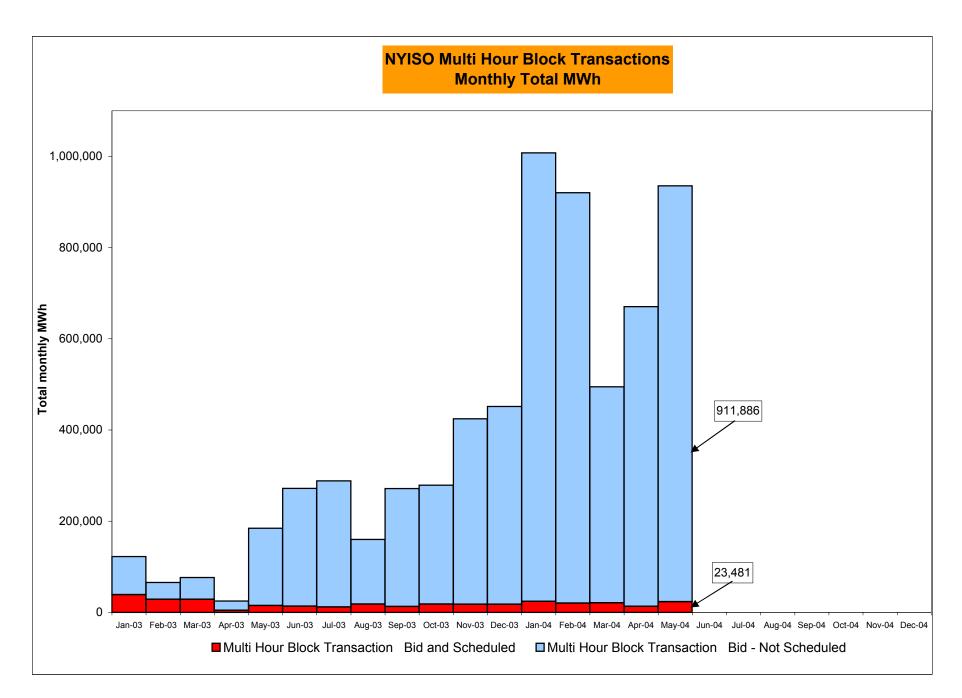
<sup>\* 80</sup> hours not included due to suspended market during system disruption

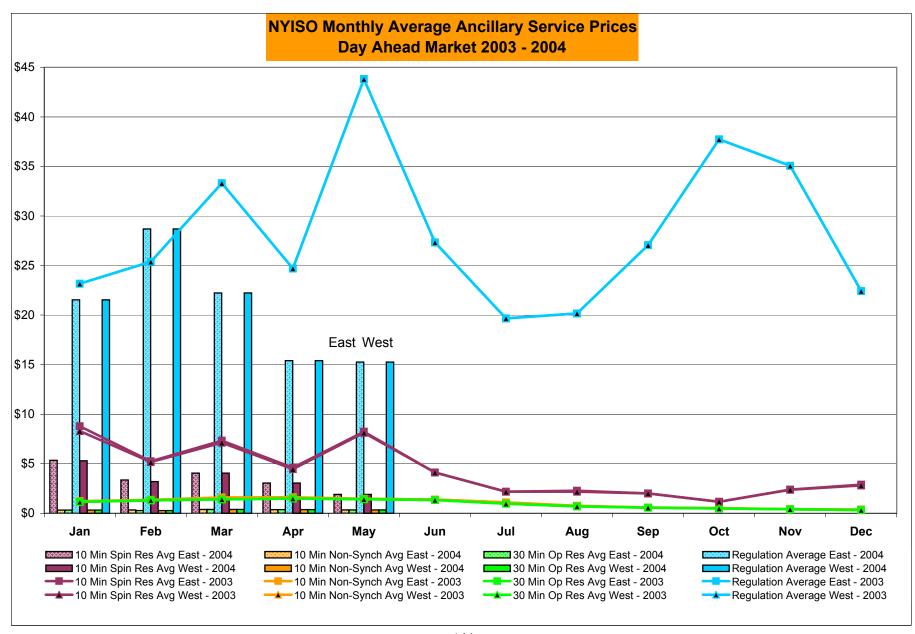


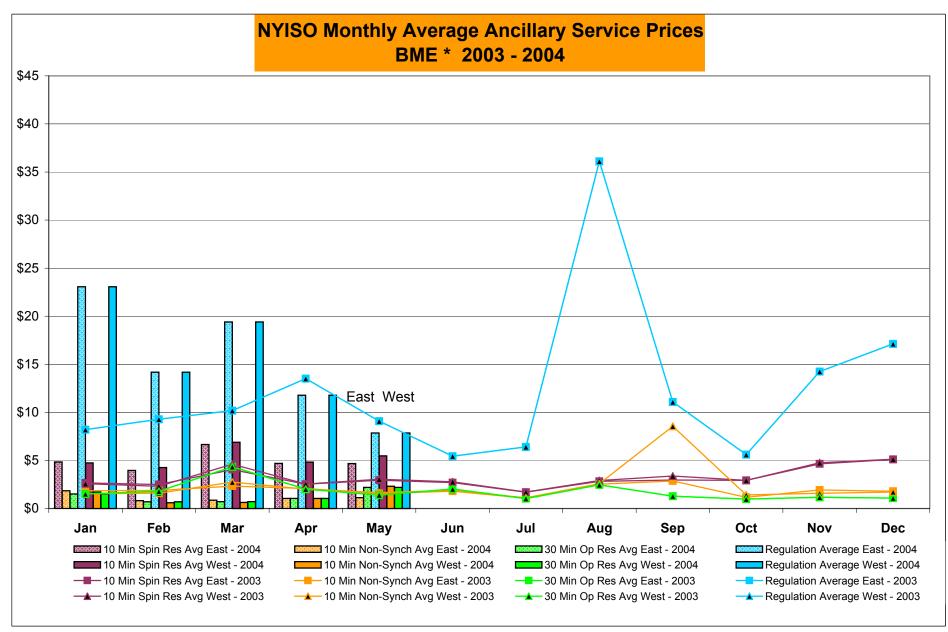


#### Virtual Load and Supply Zonal Statistics May 2004









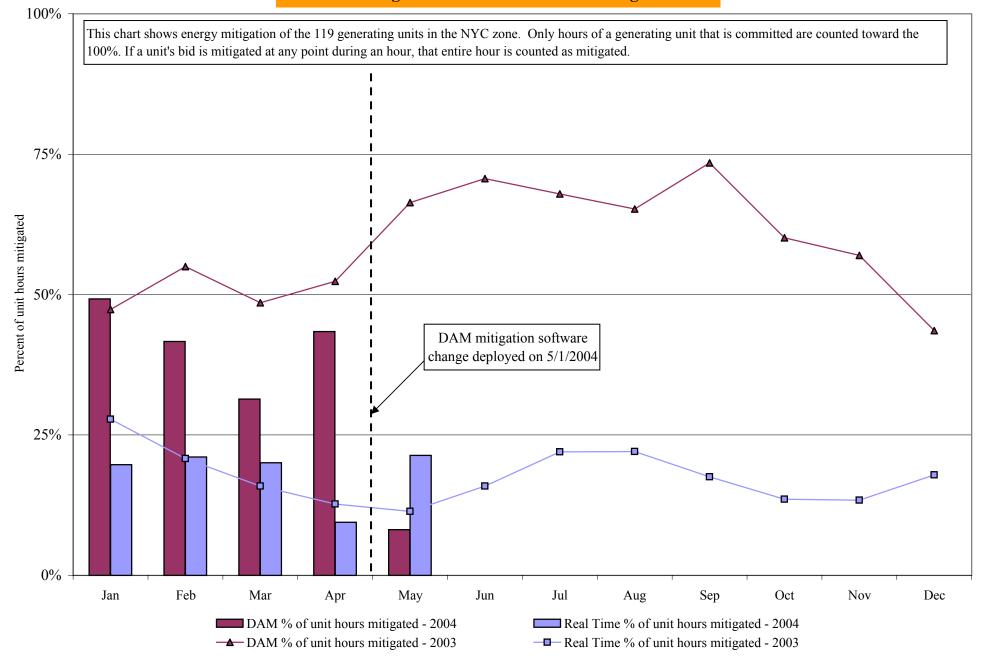
<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)

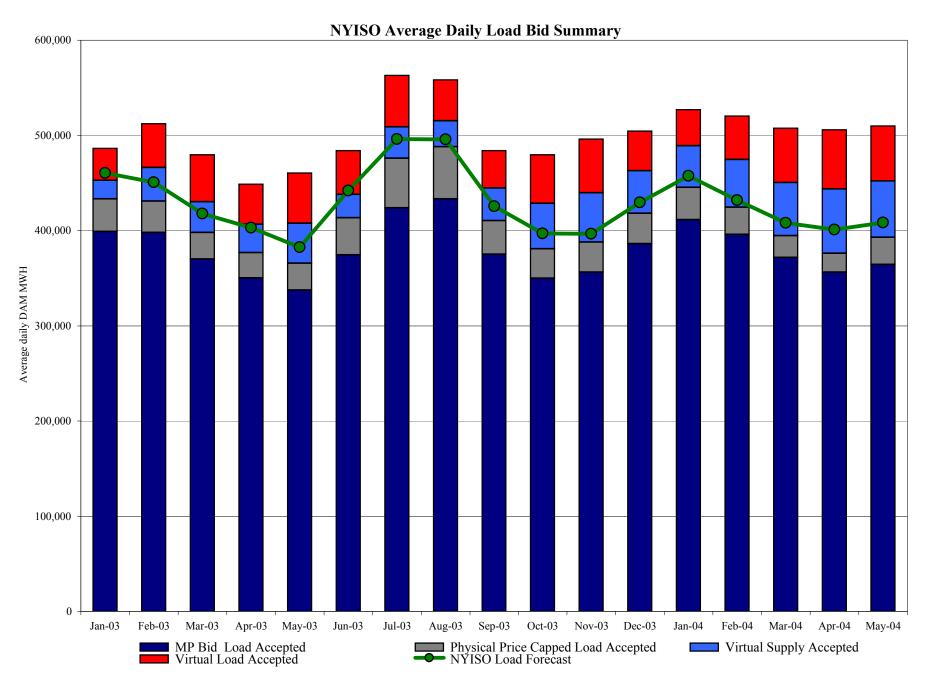
#### **NYISO Markets Ancillary Services Statistics**

	January	February	March	April	May	June	July	August	September	October	November	December
ANCILLARY SERVICES Unweigh	hted Price (\$/M	WH) 2004										
Day Ahead Market												
10 Min Spin East	5.35	3.36	4.05	3.04	1.91							
10 Min Spin West	5.29	3.20	4.05	3.04	1.90							
10 Min Non Synch East	0.33	0.33	0.39	0.38	0.34							
10 Min Non Synch West	0.32	0.27	0.39	0.38	0.33							
30 Min East	0.32	0.27	0.39	0.38	0.33							
30 Min West	0.32	0.27	0.39	0.38	0.33							
Regulation East	21.54	28.69	22.23	15.41	15.26							
Regulation West	21.54	28.69	22.23	15.41	15.26							
BME* Market												
10 Min Spin East	4.84	3.96	6.65	4.69	4.67							
10 Min Spin West	4.75	4.27	6.89	4.82	5.48							
10 Min Non Synch East	1.85	0.81	0.87	1.05	1.14							
10 Min Non Synch West	1.71	0.60	0.64	1.06	2.31							
30 Min East	1.51	0.70	0.72	1.06	2.20							
30 Min West	1.51	0.70	0.72	1.06	2.20							
Regulation East	23.07	14.18	19.41	11.78	7.85							
Regulation West	23.07	14.18	19.41	11.78	7.85							
ANCILLARY SERVICES Unweight	hted Price (\$/M	WH) 2003										
10 Min Spin East	8.78	5.24	7.33	4.60	8.24	4.12	2.18	2.28	2.01	1.17	2.39	2.89
10 Min Spin West	8.30	5.17	7.12	4.45	8.12	4.11	2.18	2.18	2.00	1.17	2.37	2.81
10 Min Non Synch East	1.22	1.36	1.60	1.61	1.48	1.40	1.09	0.76	0.58	0.52	0.41	0.38
10 Min Non Synch West	1.15	1.32	1.45	1.54	1.45	1.39	1.09	0.72	0.58	0.52	0.40	0.32
30 Min East	1.14	1.30	1.41	1.48	1.42	1.35	0.97	0.69	0.56	0.48	0.40	0.32
30 Min West	1.14	1.30	1.41	1.48	1.42	1.35	0.97	0.69	0.56	0.48	0.40	0.32
Regulation East	23.17	25.39	33.31	24.70	43.82	27.33	19.67	20.17	27.06	37.74	35.07	22.43
Regulation West	23.17	25.39	33.31	24.70	43.82	27.33	19.67	20.17	27.06	37.74	35.07	22.43
BME* Market												
10 Min Spin East	2.67	2.50	4.05	2.54	2.95	2.69	1.69	2.82	2.96	2.92	4.65	5.11
10 Min Spin West	2.59	2.32	4.61	2.55	3.04	2.78	1.72	2.91	3.38	2.94	4.76	5.13
10 Min Non Synch East	1.85	1.89	2.34	2.07	1.57	1.80	1.09	2.53	2.87	1.17	1.92	1.80
10 Min Non Synch West	1.53	1.59	2.75	2.02	1.67	1.88	1.11	2.58	8.55	1.41	1.57	1.71
30 Min East	1.52	1.80	4.34	2.02	1.40	2.03	1.04	2.46	1.28	0.97	1.17	1.07
30 Min West	1.52	1.80	4.34	2.02	1.40	2.03	1.04	2.46	1.28	0.97	1.17	1.07
Regulation East	8.21	9.28	10.19	13.52	9.08	5.44	6.41	36.11	11.09	5.60	14.24	17.12
Regulation West	8.21	9.28	10.19	13.52	9.08	5.44	6.41	36.11	11.09	5.60	14.24	17.12
*0		( ( 1 1 4 5 4 )										

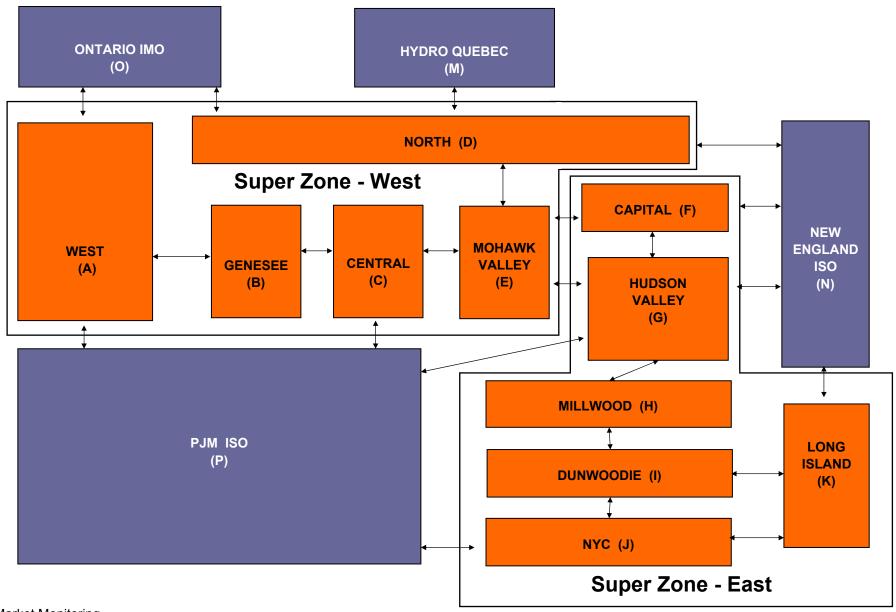
<sup>\*</sup> Commonly Referred to as Hour Ahead Market (HAM)

#### NYISO In City Energy Mitigation (NYC Zone) 2003-2004 Percentage of committed unit-hours mitigated





## NYISO LBMP ZONES



Market Monitoring
Prepared: 5/18/2004 15:15

## SMD2, What's next?

## Market Exercises

- SMD 2 Exercise Guide is posted to the NYISO Website on the SMD 2 Transition page
- Market Exercises begin with two Day-Ahead Market (DAM) bid-to-post exercises and progresses to three full 24-hour, two-settlement exercises
- SMD 2 market exercises are designed to verify the participants' ability to manage bids and offers, and access data and schedules in the SMD 2 environment
- 24 hour support coverage will be provided during each two-settlement Market Exercise run
- NYISO will host a review session, via teleconference, following each market exercise session

## SMD2, What's next?

## Market Participant Readiness Program

- All Market Participants will be contacted by their Customer Relations Representatives during the course of the SMD2 Market Exercise
  - Market Exercise support will be provided
  - Participation in each exercise will be encouraged
  - Customers not participating in the market exercises will be notified via a series of letters

## **Training Opportunities**

- SMD 2 training will be held in Houston on June 22
- Additional training is planned
  - Information will be posted under Market Training once the dates are determined