

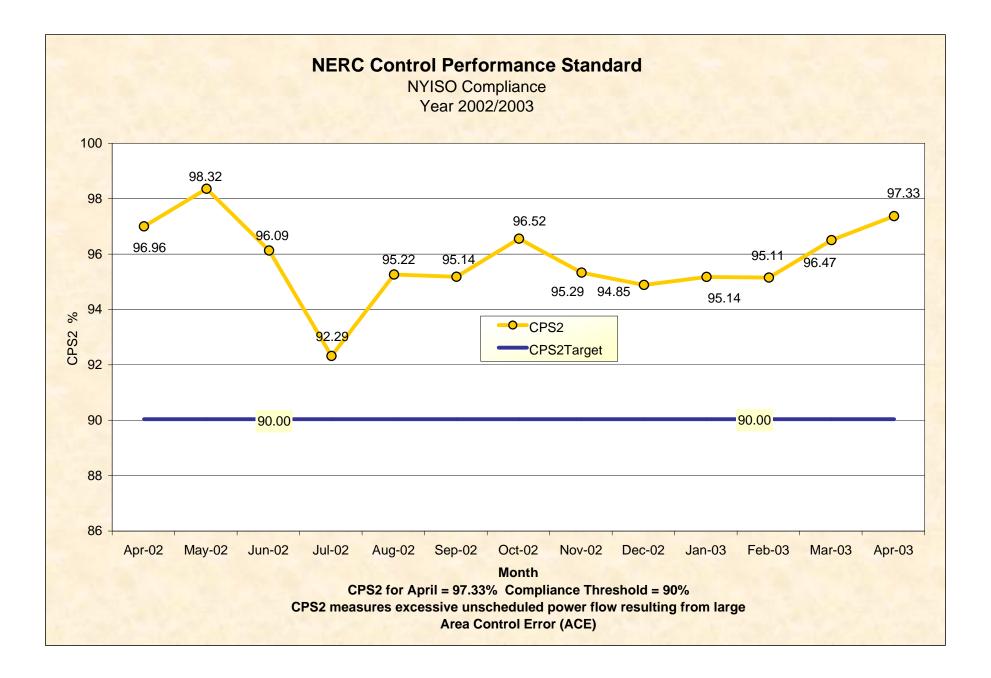
NYISO Market Operations Report

Business Issues Committee Meeting May 7, 2003

Agenda #4

Report Items

- Reliability Indicators
 ▶ NERC Criteria (CPS-2 Curve)
- 2) Market Performance Highlights



April 2003

NYISO Market Performance Highlights

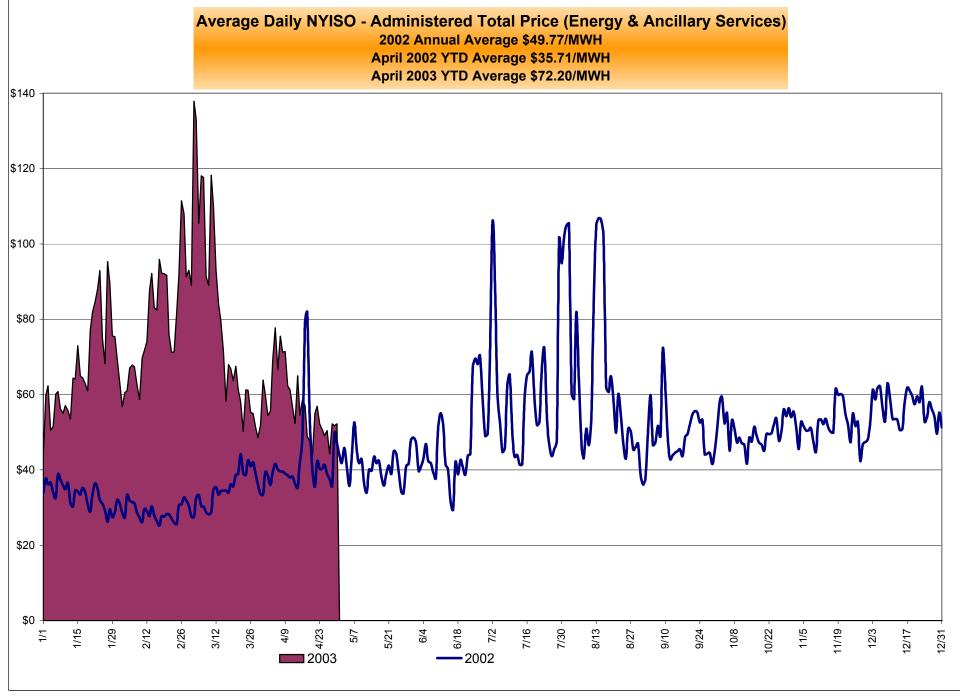
- Total monthly energy prices dropped by 29% between March and April
- Uplift for April increased somewhat, tracking historical seasonal trends
- Price reservation/corrections rose sharply in April, drivers include:
 - Zonal NYC Generator Modeling errors
 - OSS deployment in April
- Internal procedures and software implementation coordination has been improved to reduce price reservations

FRP Confirmation / Trust Relationship Summary

- New feature of "FRP (Financially Responsible Party) Confirmation" was introduced on April 13, 2003.
- Provides transaction (contract) owner an opportunity to verify any changes made to transaction bids by other authorized parties.
- This new control can be automated by creating a "Trust Relationship" with other organizations (MIS admin function).
 - With Trust Relationships in place, MIS confirmation logic behaves exactly as it did prior to April 13, 2003.
- There is NO CHANGE to existing MIS source/sink authorization and confirmation rules (including "auto-confirm" at source/sink).

→ Trust relationships ONLY relevant to FRP confirmation.

- Transactions requiring FRP confirmation can be identified in MIS (using new "OSS Status" column in conjunction with "MIS Status").
- ➔ If "FRP Confirmation" is not automated with a Trust Relationship, the confirmation can be provided manually in either MIS or OSS.

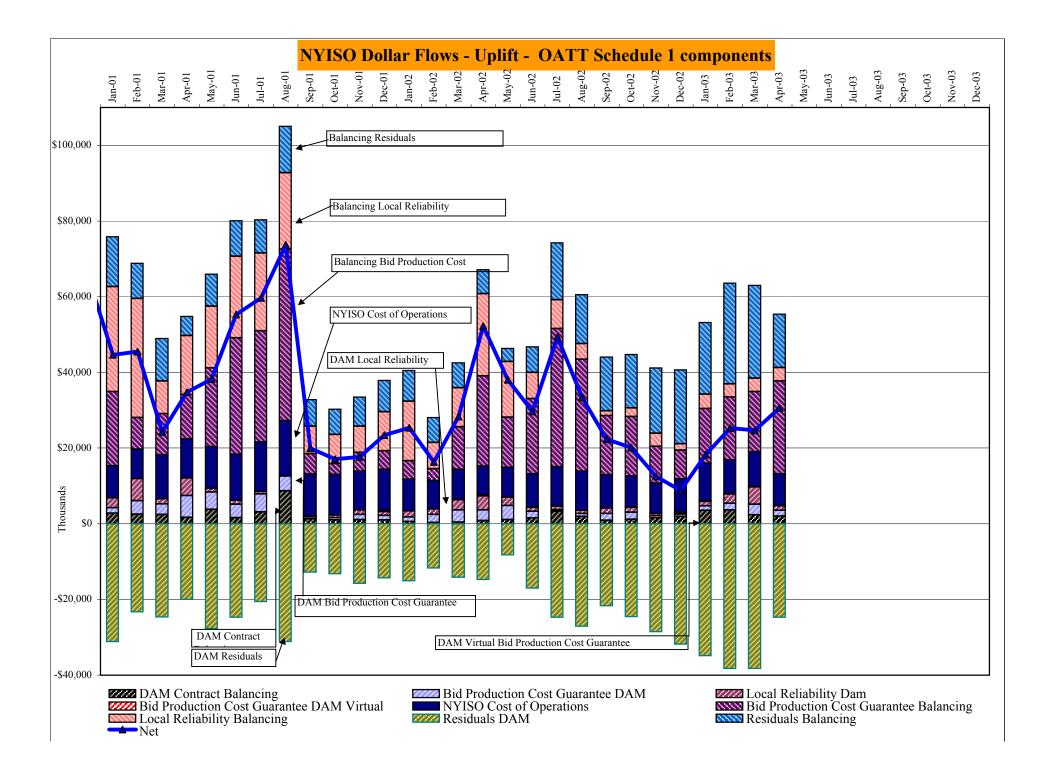


5/5/2003 8:52 PM Market Monitoring

NYISO Administered Total Price (Energy and Ancillary Services)

from the LBMP Customer point of view

			n om t		Customer j		**					
2003	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	66.36	76.58	78.36	54.26								
NTAC	0.41	0.35	0.66	0.45								
Reserve	0.48	0.36	0.47	0.41								
Regulation	0.26	0.27	0.38	0.31								
NYISO Cost of Operations	0.68	0.68	0.68	0.68								
Uplift	0.34	1.02	0.97	1.72								
Voltage Support and Black Start	0.33	0.33	0.33	0.33								
Avg Monthly Price	68.86	79.60	81.84	58.16								
Avg YTD Price	68.86	73.99	76.57	72.20								
2002	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	30.32	26.58	32.02	39.03	37.48	45.59	60.80	65.60	46.88	48.07	50.05	54.73
NTAC	0.53	0.48	0.45	0.43	0.47	0.61	1.04	0.52	0.49	0.63	0.39	0.35
Reserve	0.19	0.19	0.24	0.29	0.21	0.19	0.30	0.33	0.22	0.22	0.31	0.41
Regulation	0.19	0.19	0.17	0.16	0.26	0.24	0.18	0.20	0.27	0.26	0.25	0.25
NYISO Cost of Operations	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.62	0.63
Uplift	1.19	0.67	1.36	3.70	2.34	1.35	2.28	1.32	0.86	0.74	0.23	(0.08)
Voltage Support and Black Start	0.34	0.33	0.33	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Avg Monthly Price	33.39	29.08	35.21	44.58	41.72	48.94	65.56	68.94	49.68	50.88	52.19	56.63
Avg YTD Price	33.39	31.37	32.69	35.71	36.83	39.06	44.35	48.39	48.54	48.77	49.09	49.77
2001	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	61.52	44.29	49.98	48.60	52.84	50.31	46.58	71.97	35.33	31.05	31.53	29.23
NTAC	0.39	0.21	0.59	0.35	0.51	0.41	0.30	0.35	0.38	0.39	0.40	0.61
Reserve	0.47	0.29	0.42	0.43	0.59	0.44	0.55	1.40	0.43	0.25	0.27	0.25
Regulation	0.07	0.07	0.10	0.10	0.13	0.08	0.08	0.06	0.14	0.18	0.15	0.18
NYISO Cost of Operations	0.65	0.59	0.89	0.89	0.88	0.88	0.88	0.88	0.88	0.83	0.88	0.88
Uplift	2.62	2.85	0.88	2.04	2.98	3.12	3.71	4.27	0.67	0.54	0.52	0.94
Voltage Support and Black Start	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Avg Monthly Price	66.05	48.64	53.20	52.75	58.27	55.58	52.44	79.28	38.17	33.57	34.10	32.44
Avg YTD Price	66.05	58.08	56.55	55.72	56.21	56.09	55.41	59.68	57.12	54.63	52.99	51.42
2000	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	46.01	41.33	32.62	32.05	50.39	79.35	51.46	63.48	54.29	53.84	52.16	62.85
NTAC	0.47	0.20	0.25	0.65	0.60	0.46	0.39	0.42	0.22	0.32	0.30	0.20
Reserve	1.44	5.64	2.68	0.27	0.68	0.66	0.31	0.49	0.64	0.44	0.33	0.37
Regulation	0.19	0.35	0.42	0.33	0.14	0.01	0.10	0.04	0.07	0.09	0.08	0.07
NYISO Cost of Operations	1.14	(0.46)	(0.61)	0.47	0.76	0.89	0.88	1.81	1.89	0.43	0.48	0.49
Uplift	0.16	0.05	(0.29)	0.27	3.37	3.31	1.13	3.80	2.85	0.96	0.38	3.70
Voltage Support and Black Start	0.38	0.37	0.37	0.37	0.38	0.38	0.38	0.37	0.39	0.40	0.40	0.40
Avg Monthly Price	49.78	47.49	35.45	34.40	56.33	85.06	54.64	70.43	60.36	56.48	54.13	68.07
Avg YTD Price	49.78	48.70	44.05	41.62	45.14	53.74	53.91	56.57	57.09	57.02	56.75	57.90
Market Monitoring					4-B				These n	umbers reflect	the rebilling of	prior periods.



	NYISO Mark	ets 2003 Tran	sactions									
	January	February	March	April	May	June	July	August	September	October	November	December
Transactions by Market								•	·			
DAM LSE Internal LBMP Energy Sales	46%	48%	46%	49%								
DAM External TC LBMP Energy Sales	1%	1%	1%	1%								
DAM Bilateral - Internal Bilaterals	50%	49%	50%	46%								
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	1%	1%	1%								
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	1%								
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	2%								
Day Ahead Market	100%	100%	100%	100%								
Balancing Energy LSE Internal LBMP Energy Sales	61%	42%	52%	72%								
Balancing Energy Esternal TC LBMP Energy Sales	54%	73%	95%	73%								
Balancing Energy Bilateral - Internal Bilaterals	-6%	-9%	-2%	0%								
Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals	-0%	-3 %	1%	1%								
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	-38%	0%								
Balancing Energy Bilateral - Wheel Through Bilaterals	-13%	-6%	-8%	-46%								
Balancing Energy Bilateral - Wheel Through Bilaterals Balancing Energy +	100%	100%	100%	100%								
Datation g Energy	100 /0	10070	100 /0	100 /0								
Transactions Summary												
LBMP	49%	50%	49%	52%								
Internal Bilaterals	48%	47%	48%	45%								
Import Bilaterals	1%	1%	1%	1%								
Export Bilaterals	1%	1%	1%	1%								
Wheels Through	1%	1%	1%	1%								
Market Share of Total Load												
Day Ahead Market	97.46%	97.58%	97.21%	98.07%								
Balancing Energy +	2.54%	2.42%	2.79%	1.93%								
Total MWH		13,010,139		12,233,455								
		ets 2002 Tran		April	May	lune	luly	August	Sentember	October	November	December
Transactions by Market	NYISO Mark January	ets 2002 Tran February	nsactions March	April	Мау	June	July	August	September	October	November	December
Transactions by Market	January	February	March									
DAM LSE Internal LBMP Energy Sales	January 44%	February 42%	March 43%	45%	40%	43%	50%	51%	. 46%	46%	49%	47%
DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	January 44% 0%	February 42% 1%	March 43% 1%	45% 1%	40% 1%	43% 2%	50% 3%	51% 1%	46% 2%	46% 1%	49% 1%	47% 2%
DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	January 44% 0% 51%	February 42% 1% 52%	March 43% 1% 51%	45% 1% 49%	40% 1% 55%	43% 2% 51%	50% 3% 45%	51% 1% 45%	46% 2% 49%	46% 1% 50%	49% 1% 46%	47% 2% 49%
DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	January 44% 0% 51% 1%	February 42% 1% 52% 1%	March 43% 1% 51% 1%	45% 1% 49% 0%	40% 1% 55% 0%	43% 2% 51% 0%	50% 3% 45% 0%	51% 1% 45% 0%	46% 2% 49% 0%	46% 1% 50% 0%	49% 1% 46% 0%	47% 2% 49% 1%
DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	January 44% 0% 51% 1% 1%	February 42% 1% 52% 1% 1%	March 43% 1% 51% 1% 1%	45% 1% 49% 0% 1%	40% 1% 55% 0% 1%	43% 2% 51% 0% 1%	50% 3% 45% 0% 1%	51% 1% 45% 0% 1%	46% 2% 49% 0% 1%	46% 1% 50% 0% 1%	49% 1% 46% 0% 1%	47% 2% 49% 1% 1%
DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	January 44% 0% 51% 1% 1% 3%	February 42% 1% 52% 1% 1% 3%	March 43% 1% 51% 1% 1% 3%	45% 1% 49% 0% 1% 3%	40% 1% 55% 0% 1% 2%	43% 2% 51% 0% 1% 2%	50% 3% 45% 0% 1% 1%	51% 1% 45% 0% 1% 2%	46% 2% 49% 0% 1% 2%	46% 1% 50% 0% 1% 1%	49% 1% 46% 0% 1% 1%	47% 2% 49% 1% 1%
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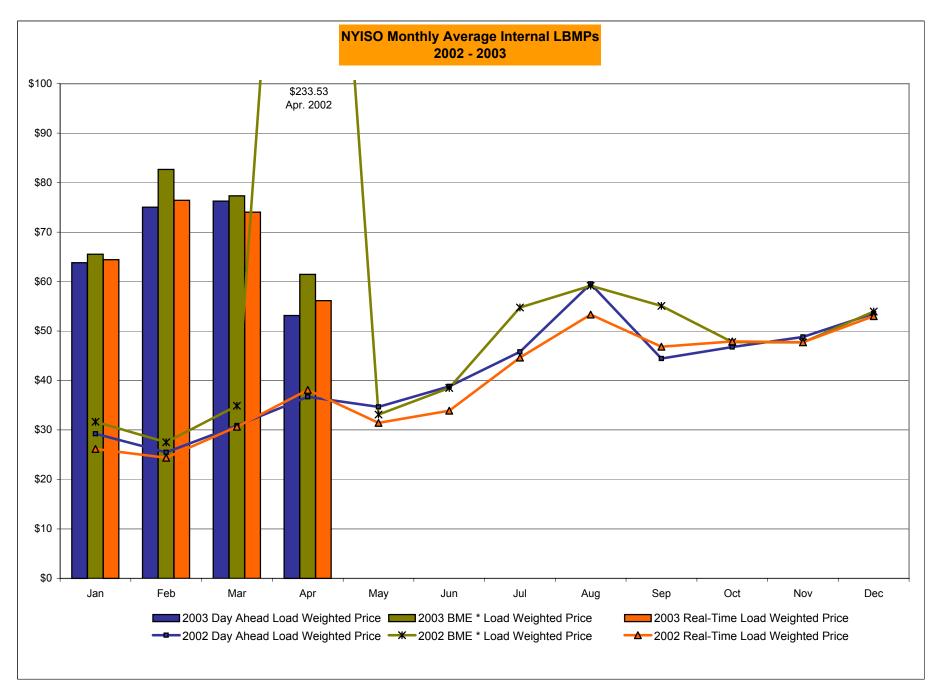
#The sign convention has changed for the detail of Balancing Energy when the total monthly Balancing Energy is negative. The signs for the detail section more intuitively reflect the direction of power flow eliminating the use of double negatives. This affects Jan., Feb., May, and June 2002.

NYISO Markets 2003 Energy Statistics

	January	February	March	April	May	June	July	August	September	October	November	December
DAY AHEAD LBMP				·				Ū	·			
Unweighted Price	\$61.33	\$72.81	\$73.18	\$51.58								
Standard Deviation	\$20.09	\$21.12	\$29.70	\$12.47								
Load Wtg.Price	\$63.81	\$75.03	\$76.25	\$53.14								
BME * LBMP												
Unweighted Price	\$63.19	\$80.25	\$74.27	\$59.22								
Standard Deviation	\$25.43	\$41.53	\$32.77	\$25.00								
Load Wtg.Price	\$65.54	\$82.65	\$77.33	\$61.45								
REAL TIME LBMP												
Unweighted Price	\$61.53	\$74.03	\$70.54	\$53.94								
Standard Deviation	\$30.16	\$37.46	\$37.97	\$28.70								
Load Wtg.Price	\$64.43	\$76.41	\$74.02	\$56.14								
Average Daily Energy Sendout/Month GWh	458	450	418	393								

NYISO Markets 2002 Energy Statistics

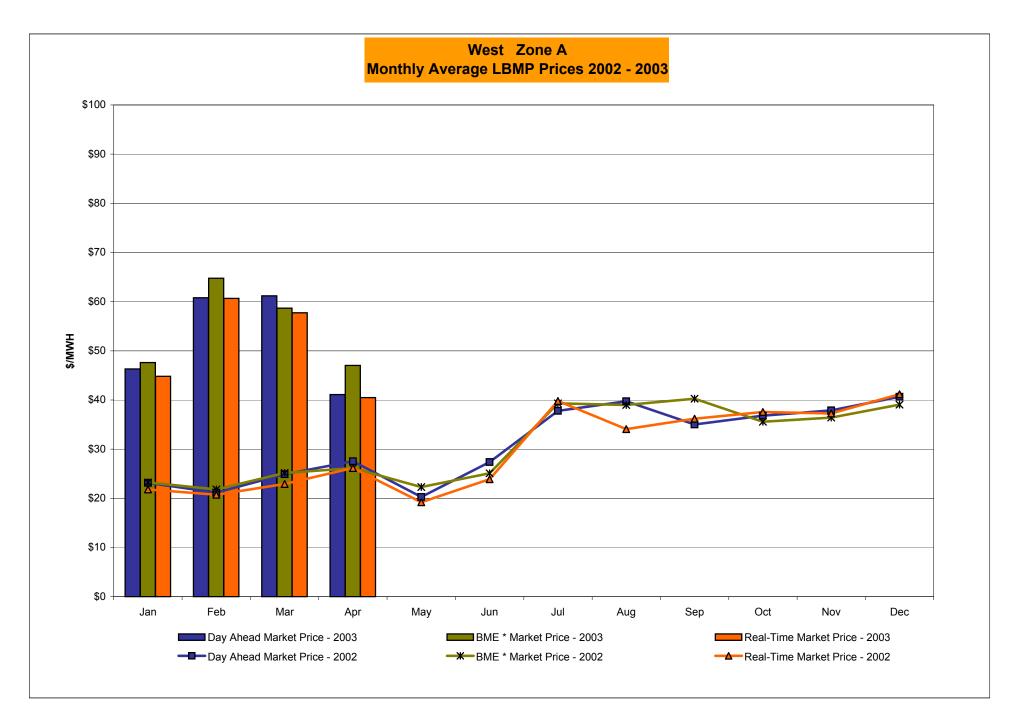
	January	February	March	April	May	June	July	August	September	October	November	December
DAY AHEAD LBMP												
Unweighted Price	\$28.39	\$24.93	\$30.07	\$35.25	\$33.36	\$38.96	\$51.07	\$54.86	\$42.58	\$45.16	\$47.30	\$52.01
Standard Deviation	\$7.26	\$4.61	\$7.28	\$11.57	\$8.76	\$15.32	\$23.15	\$29.88	\$11.72	\$11.61	\$11.72	\$12.28
Load Wtg.Price	\$29.25	\$25.50	\$30.88	\$36.72	\$34.66	\$38.81	\$45.81	\$59.54	\$44.43	\$46.76	\$48.79	\$53.54
BME * LBMP												
Unweighted Price	\$30.66	\$26.84	\$33.53	\$191.03	\$31.43	\$38.57	\$63.19	\$55.27	\$51.96	\$45.90	\$46.53	\$52.44
Standard Deviation	\$11.22	\$7.60	\$13.84	\$1,020.88	\$13.91	\$54.74	\$181.17	\$29.34	\$147.55	\$12.10	\$11.07	\$14.74
Load Wtg.Price	\$31.67	\$27.54	\$34.88	\$233.53	\$33.12	\$38.49	\$54.76	\$59.15	\$55.08	\$47.76	\$47.70	\$53.95
REAL TIME LBMP												
Unweighted Price	\$25.36	\$23.73	\$29.78	\$35.44	\$29.80	\$33.98	\$53.70	\$49.74	\$44.08	\$46.16	\$46.13	\$51.04
Standard Deviation	\$8.27	\$8.83	\$10.97	\$25.85	\$13.32	\$16.92	\$66.25	\$24.86	\$34.24	\$17.61	\$18.25	\$22.41
Load Wtg.Price	\$26.17	\$24.39	\$30.67	\$38.10	\$31.42	\$33.91	\$44.63	\$53.32	\$46.85	\$47.88	\$47.75	\$53.01
Average Daily Energy Sendout/Month GWh	427	418	403	397	388	449	513	511	444	412	413	440

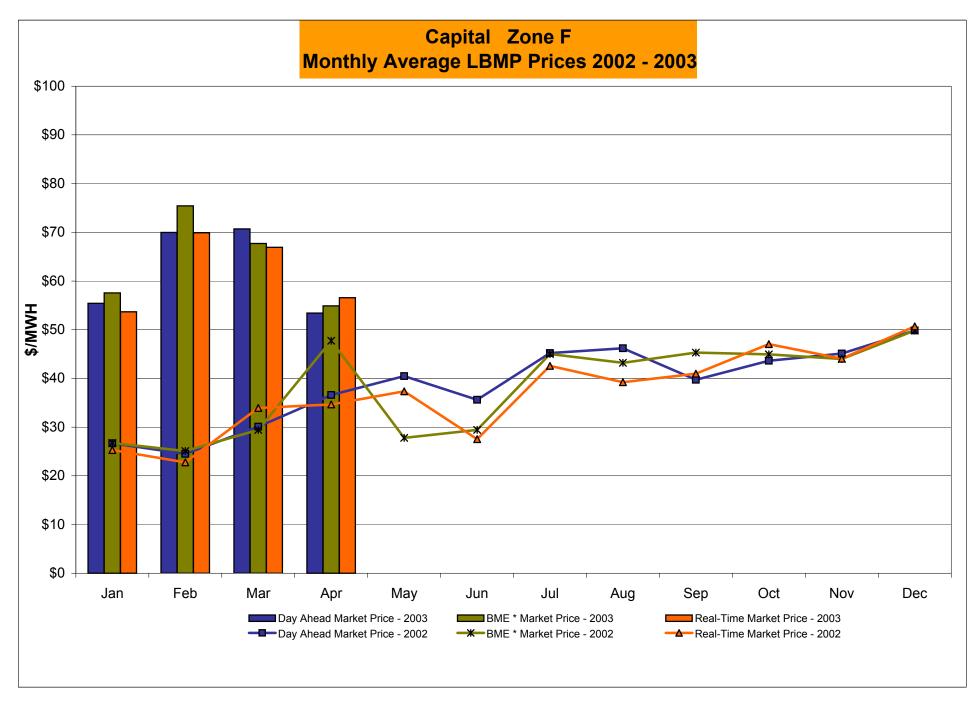


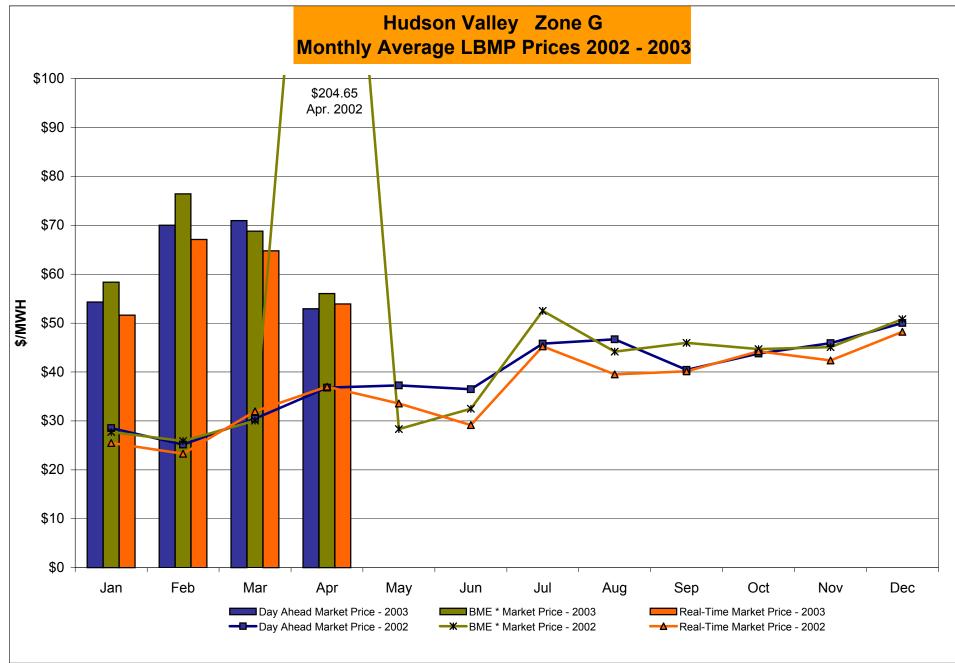
April, 2003 Zonal Statistics for NYISO (\$/MWH)

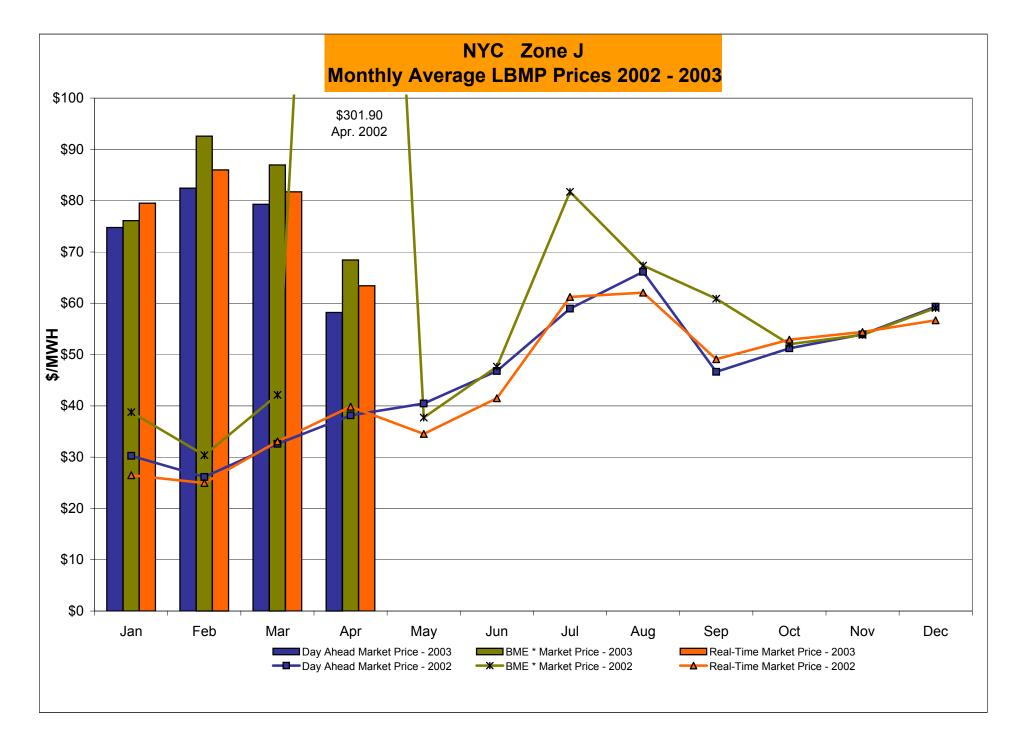
	WEST Zone A	CENTRAL Zone C	MOHAWK VALLEY Zone E	CAPITAL Zone F	HUDSON VALLEY Zone G	GENESEE Zone B	LONG ISLAND Zone K	NORTH Zone D	NEW YORK CITY Zone J	MILLWOOD D Zone H	UNWOODIE Zone I
DAY AHEAD LBMP											
Unweighted Price	41.10	43.25	43.82	53.42	52.93	42.00	57.25	42.44	58.20	54.48	54.96
Standard Deviation	10.07	10.19	10.54	14.89	13.46	10.02	15.09	9.91	15.75	14.94	15.08
BME * LBMP											
Unweighted Price	47.04	49.38	50.12	54.90	56.02	47.33	70.01	48.82	68.44	57.71	58.15
Standard Deviation	20.28	19.94	20.14	25.76	24.83	19.86	36.97	19.49	33.45	28.44	28.58
REAL TIME LBMP											
Unweighted Price	40.49	40.91	40.70	56.58	53.92	40.67	63.04	39.13	63.42	57.31	57.86
Standard Deviation	21.63	21.84	24.03	36.74	30.30	21.84	42.76	24.50	42.63	40.76	41.00

	HYDRO QUEBEC	NEW ENGLAND	ONTARIO HYDRO	PJM
	Zone M	Zone N	Zone O	Zone P
DAY AHEAD LBMP				
Unweighted Price	42.74	53.04	40.07	41.63
Standard Deviation	10.21	14.39	9.83	11.95
BME * LBMP Unweighted Price	48.07	50.40	45.87	45.60
Standard Deviation	17.29	22.50	18.45	21.95
REAL TIME LBMP Unweighted Price	40.83	50.50	38.01	40.36
Standard Deviation	24.25	30.15	20.17	22.60

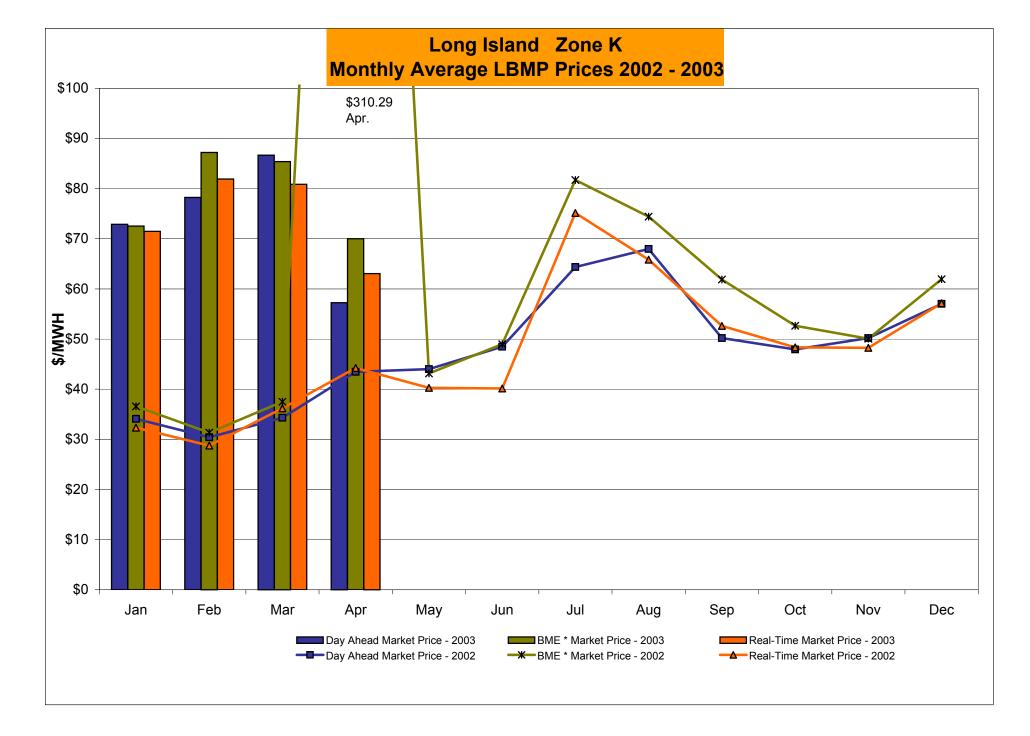


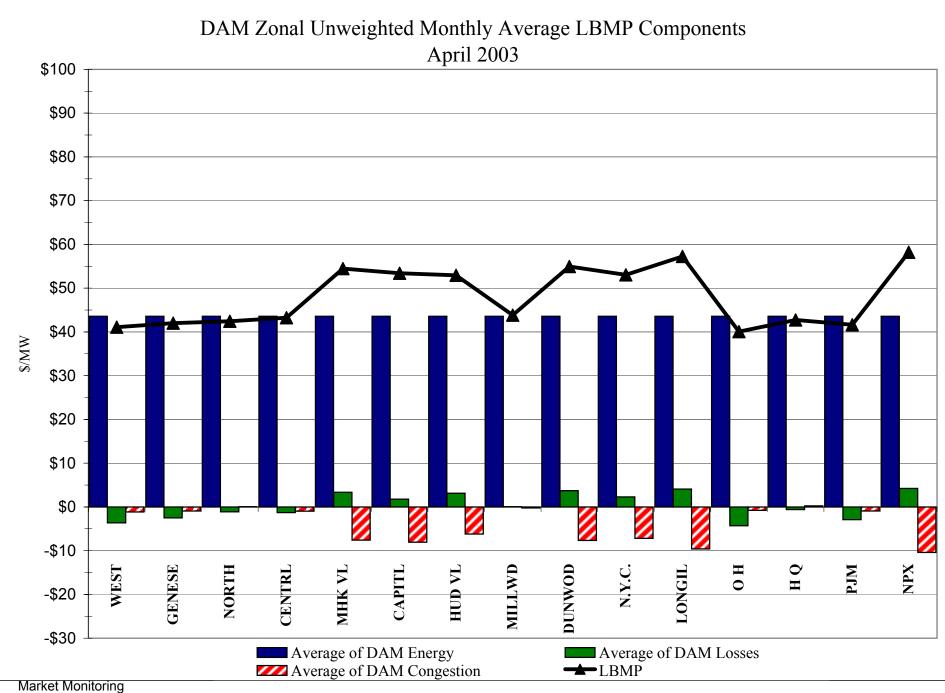


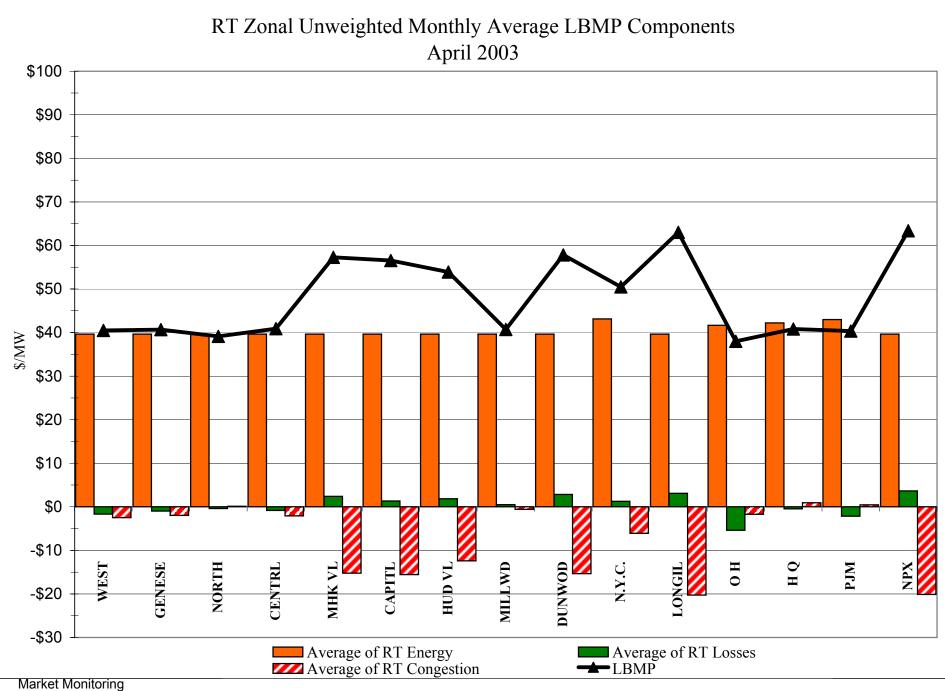




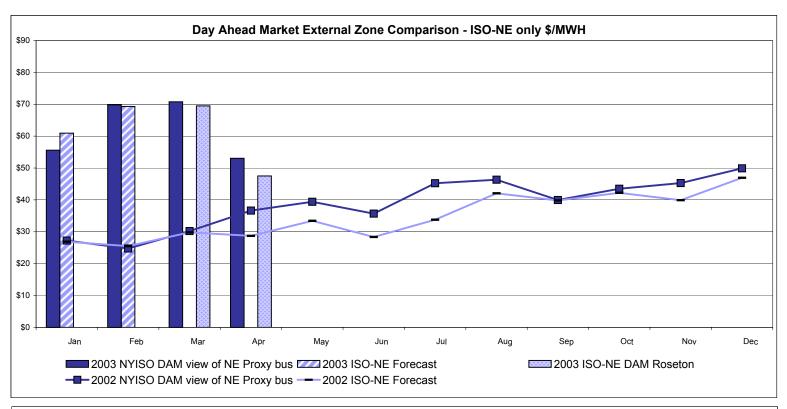
4-K Preliminary

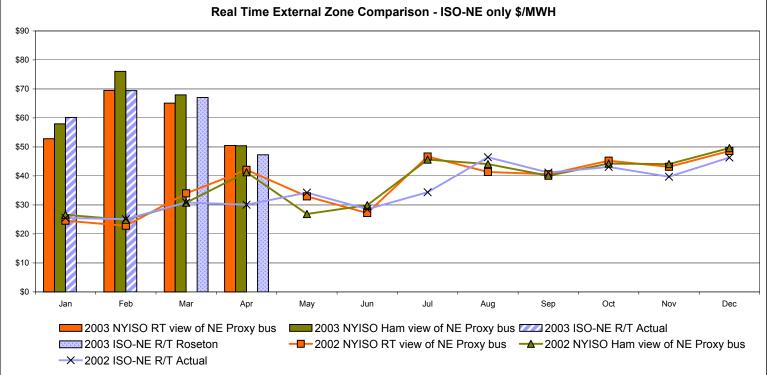






External Comparison ISO-NE





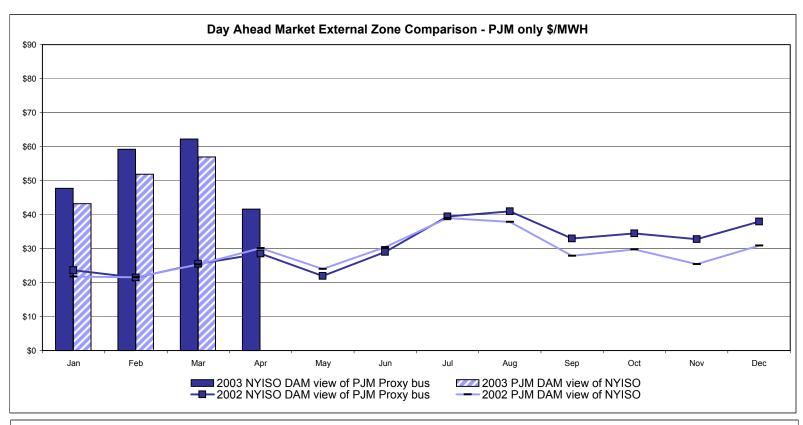
Note:

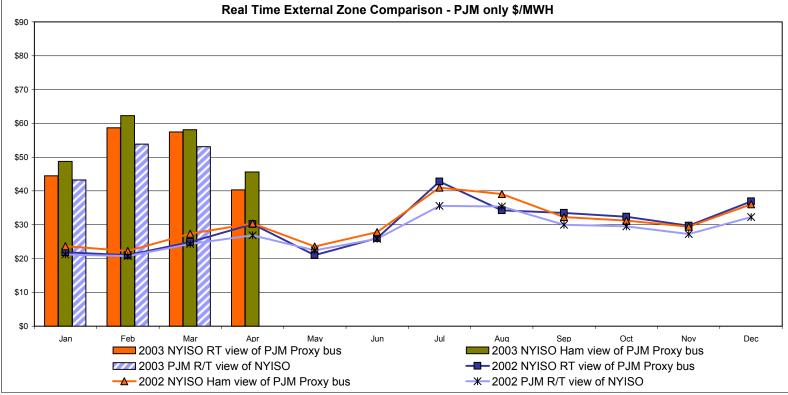
ISO-NE Forecast is an advisory posting @ 18:00 day before

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

Preliminary

External Comparison PJM



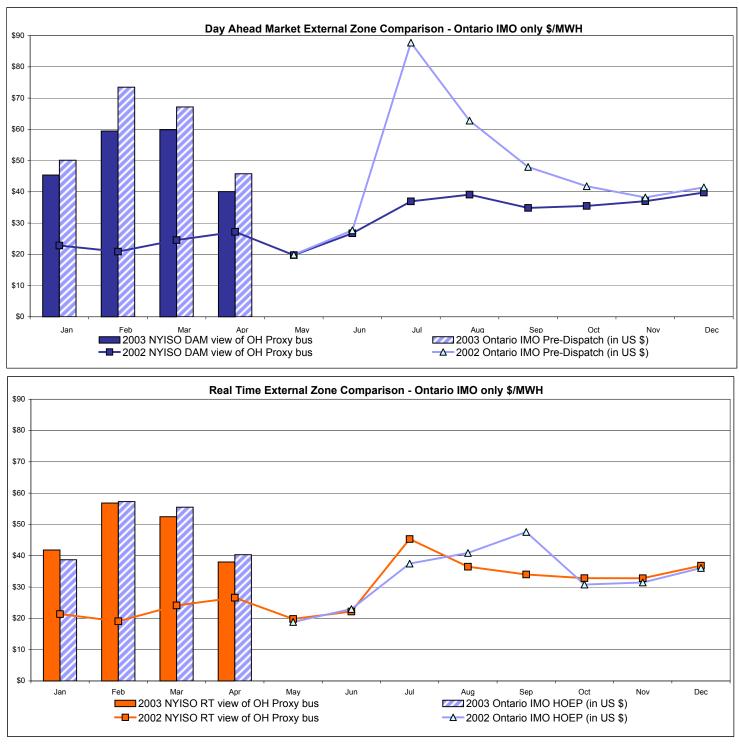


Note:

After 5/1/02 PJM lists only one interface as NYIS April 2003 data not yet posted by PJM

4 - 0

Preliminary



External Comparison Ontario IMO

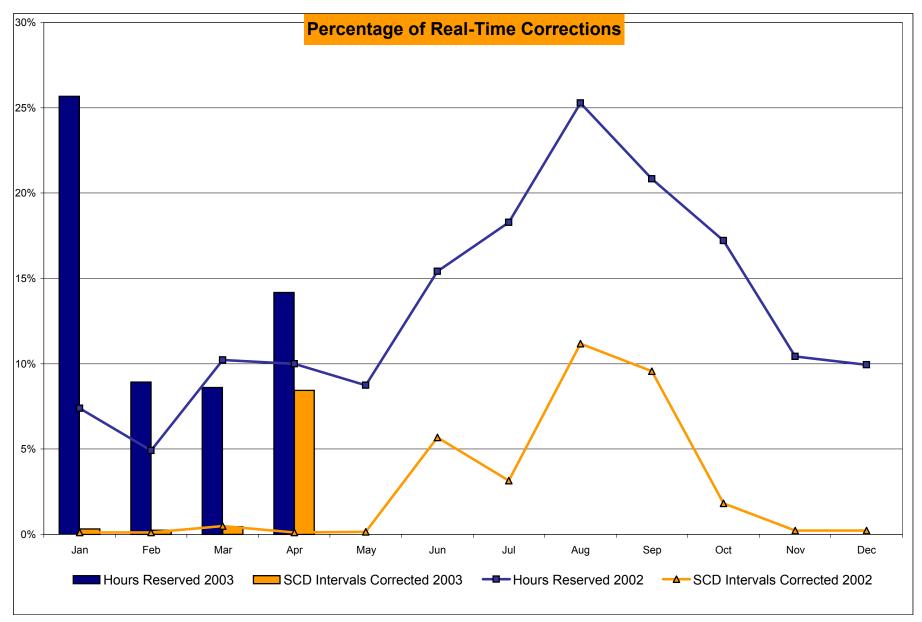
Notes: Exchange factor used for March 2003 was .68 to US \$ HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

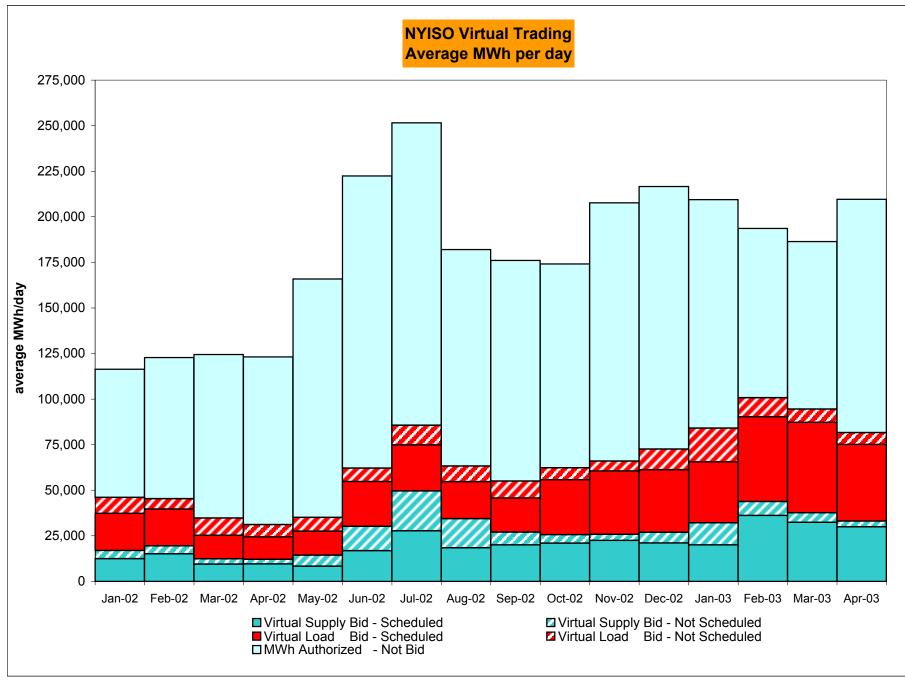
Preliminary

NYISO Price Correction Statistics

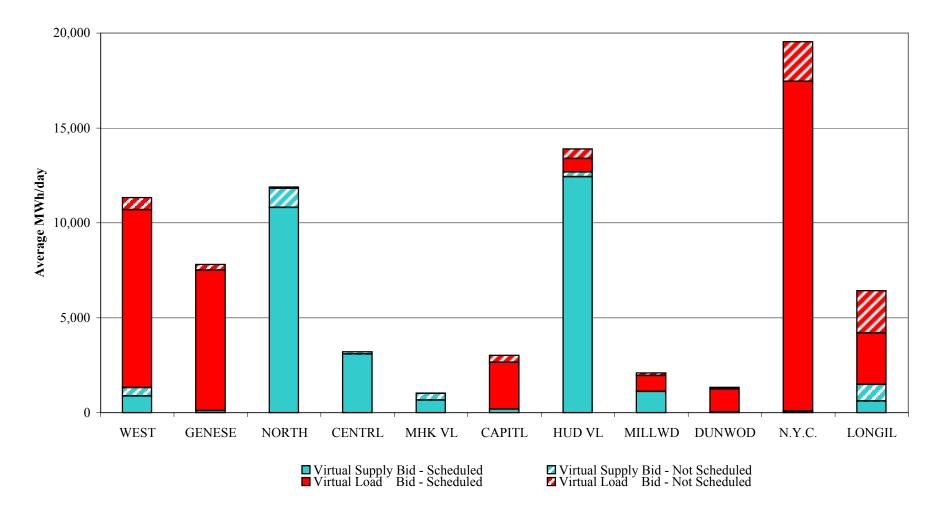
NYISO Price Corrections 2003

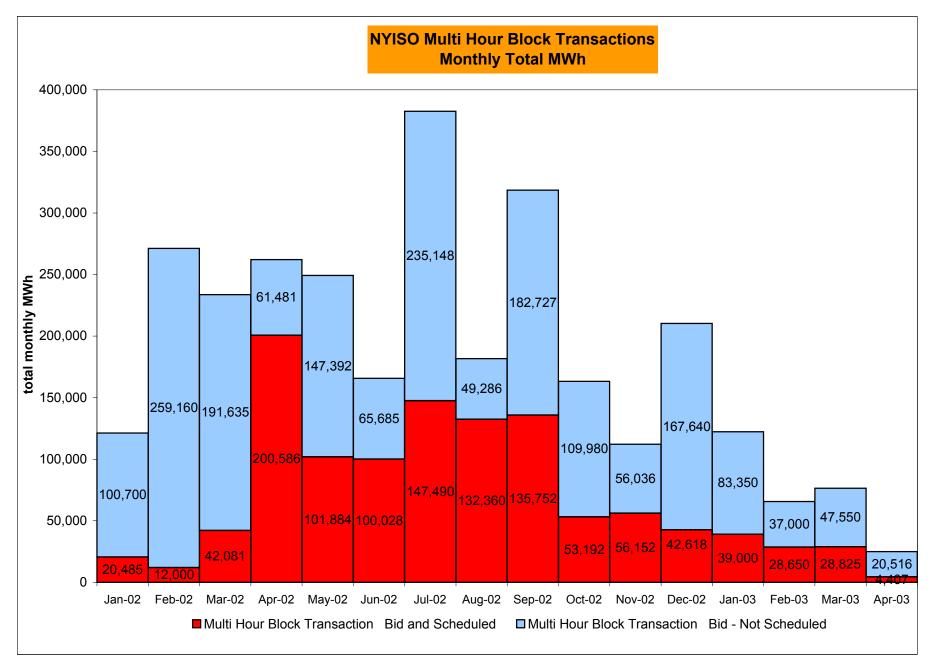
Interval Corrections	January	February	March	April	Мау	June	July	August	September	October	November	December
Number of Intervals corrected in the month	35	25	49	891								
Number of Intervals in the month	10,986	10,197	10,918	10,554								
Percentage of intervals corrected in the month	0.32%	0.25%	0.45%	8.44%								
Number of Intervals corrected Year-to-date	35	60	109	1,000								
Number of Intervals Year-to-date	10,986	21,183	32,101	42,655								
Percentage of intervals corrected Year-to-date	0.32%	0.28%	0.34%	2.35%								
Hours Reserved												
Number of hours reserved in the month	191	60	64	102								
Number of hours in the month	744	672	744	720								
Percentage of hours reserved in the month	25.67%	8.93%	8.60%	14.17%								
Number of hours reserved Year-to-date	191	251	315	417								
Number of hours Year-to-date	744	1,416	2,160	2,880								
Percentage of hours reserved Year-to-date	25.67%	15.74%	14.58%	14.48%								
Days Without Corrections												
Days without price corrections in the month	18	15	14	9								
Days without price corrections Year-to-date	18	33	47	56								
NYISO Price Corrections 2002												
Interval Corrections	January	February	March	April	Мау	June	July	August	September	October	November	December
Number of Intervals corrected in the month	12	11	55	13	16	616	346	1,261	1,016	201	23	24
Number of Intervals in the month	11,129	10,111	11,231	11,075	11,330	10,845	11,014	11,291	10,632	11,068	10,568	11,043
Percentage of intervals corrected in the month	0.11%	0.11%	0.49%	0.12%	0.14%	5.68%	2.28%	11.17%	9.56%	1.82%	0.22%	0.22%
Number of Intervals corrected Year-to-date	12	23	78	91	107	723	1,069	2,330	3,346	3,547	3,570	3,594
Number of Intervals Year-to-date	11,129	21,240	32,471	43,546	54,876	65,721	76,735	88,026	98,658	109,726	120,294	131,337
Percentage of intervals corrected Year-to-date	0.11%	0.11%	0.24%	0.21%	0.19%	1.10%	1.27%	2.65%	3.39%	3.23%	2.97%	2.74%
Hours Reserved												
Number of hours reserved in the month	55	33	76	72	65	111	136	188	150	128	75	74
Number of hours in the month	744	672	744	720	744	720	744	744	720	744	720	744
Percentage of hours reserved in the month	7.26%	4.91%	10.22%	10.00%	8.74%	15.42%	18.28%	25.27%	20.83%	17.20%	10.42%	9.95%
Number of hours reserved Year-to-date	55	88	164	236	301	412	548	736	886	1,014	1,089	1,163
Number of hours Year-to-date	744	1,416	2,160	2,880	3,624	4,344	5,088	5,832	6,552	7,296	8,016	8,760
Percentage of hours reserved Year-to-date	7.26%	6.14%	7.55%	8.16%	8.31%	9.48%	10.77%	12.62%	13.52%	13.90%	13.59%	13.28%
Days Without Corrections												
Days without price corrections in the month	25	20	27	23	20	12	11	5	10	15	19	17
Days without price corrections Year-to-date	25	45	72	95	115	127	138	143	153	168	187	204

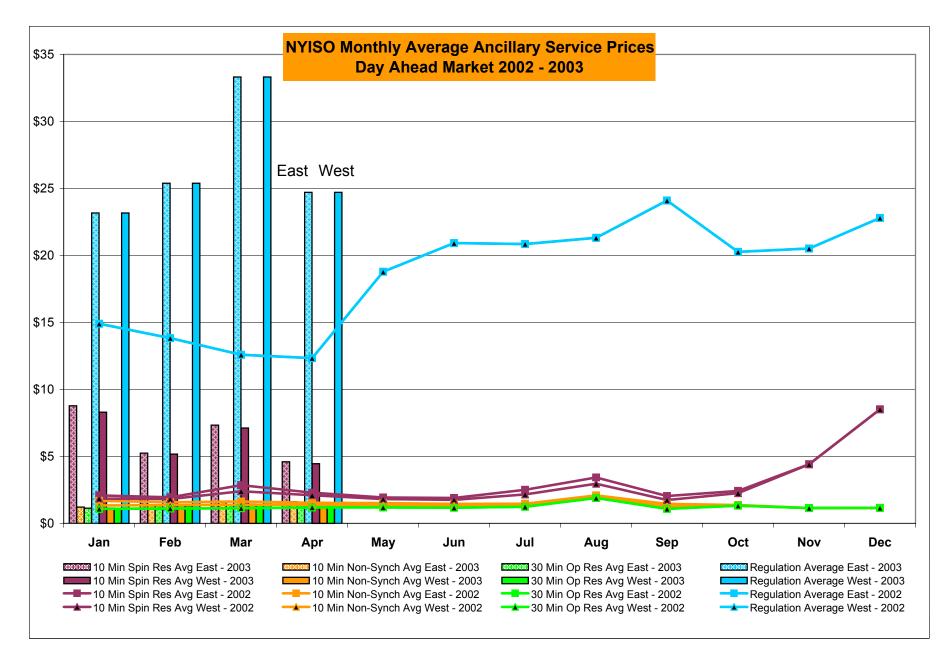


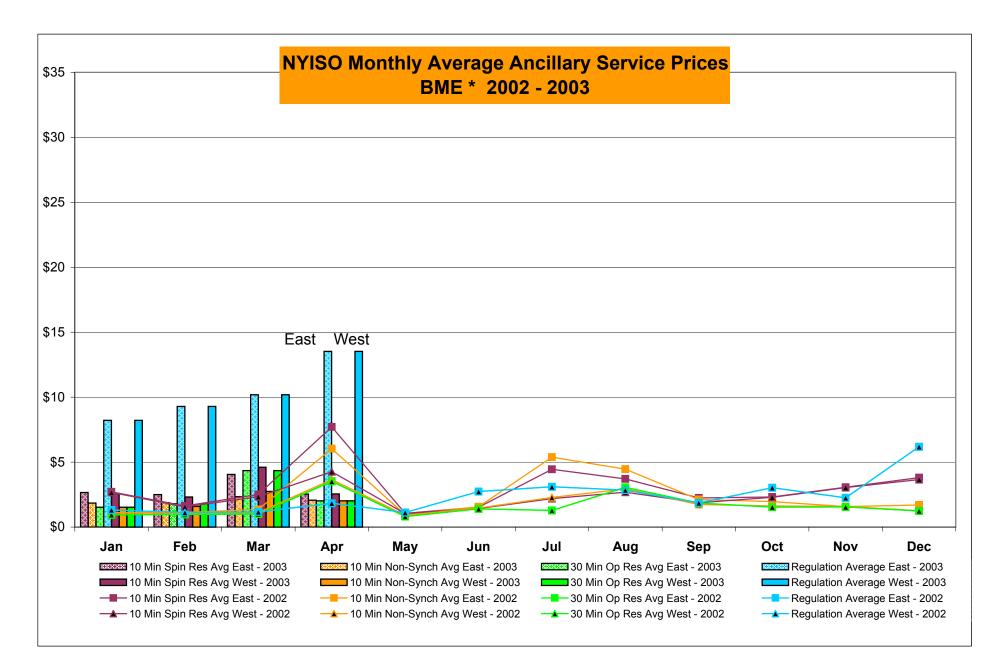


Virtual Load and Supply Zonal Statistics April 2003









NYISO Markets Ancillary Services Statistics

	January	February	March	April	May	June	July	August	September	October	November	December
ANCILLARY SERVICES Unweighted	d Price (\$/M\	<u>NH) 2003</u>										
Day Ahead Market												
10 Min Spin East	8.78	5.24	7.33	4.60								
10 Min Spin West	8.30	5.17	7.12	4.45								
10 Min Non Synch East	1.22	1.36	1.60	1.61								
10 Min Non Synch West	1.15	1.32	1.45	1.54								
30 Min East	1.14	1.30	1.41	1.48								
30 Min West	1.14	1.30	1.41	1.48								
Regulation East	23.17	25.39	33.31	24.70								
Regulation West	23.17	25.39	33.31	24.70								
BME* Market												
10 Min Spin East	2.67	2.50	4.05	2.54								
10 Min Spin West	2.59	2.32	4.61	2.55								
10 Min Non Synch East	1.85	1.89	2.34	2.07								
10 Min Non Synch West	1.53	1.59	2.75	2.02								
30 Min East	1.52	1.80	4.34	2.02								
30 Min West	1.52	1.80	4.34	2.02								
Regulation East	8.21	9.28	10.19	13.52								
Regulation West	8.21	9.28	10.19	13.52								
ANCILLARY SERVICES Unweighted	d Price (\$/M	<u> WH) 2002</u>										
Day Ahead Market												
10 Min Spin East	2.09	1.95	2.85	2.29	1.93	1.90	2.51	3.43	2.04	2.43	4.42	8.52
10 Min Spin West	1.85	1.81	2.40	2.11	1.81	1.75	2.16	2.96	1.74	2.26	4.41	8.52
10 Min Non Synch East	1.68	1.58	1.64	1.55	1.52	1.46	1.47	2.09	1.46	1.37	1.15	1.16
10 Min Non Synch West	1.34	1.36	1.39	1.40	1.34	1.32	1.35	1.96	1.27	1.33	1.15	1.16
30 Min East	1.09	1.11	1.13	1.19	1.20	1.17	1.24	1.90	1.09	1.32	1.15	1.16
30 Min West	1.09	1.11	1.13	1.19	1.20	1.17	1.24	1.90	1.09	1.32	1.15	1.16
Regulation East	14.90	13.83	12.59	12.33	18.78	20.92	20.85	21.31	24.10	20.27	20.51	22.80
Regulation West	14.90	13.83	12.59	12.33	18.78	20.92	20.85	21.31	24.10	20.27	20.51	22.80
BME* Market												
10 Min Spin East	2.70	1.62	2.51	7.71	1.06	1.53	4.45	3.71	2.25	2.32	3.07	3.81
10 Min Spin West	2.67	1.55	2.34	4.26	1.03	1.43	2.19	2.69	1.88	2.29	3.04	3.66
10 Min Non Synch East	1.11	1.13	1.35	6.03	0.94	1.56	5.38	4.45	2.12	1.96	1.58	1.70
10 Min Non Synch West	0.99	1.05	1.12	3.65	0.91	1.46	2.27	2.94	1.74	1.63	1.58	1.26
30 Min East	0.95	0.97	1.01	3.54	0.82	1.41	1.28	3.05	1.85	1.54	1.55	1.24
30 Min West	0.95	0.97	1.01	3.51	0.82	1.41	1.28	3.05	1.85	1.54	1.55	1.24
Regulation East	1.32	1.12	1.17	1.84	1.12	2.73	3.11	2.85	1.86	3.03	2.25	6.18
Regulation West	1.32	1.12	1.17	1.84	1.12	2.73	3.11	2.85	1.86	3.03	2.25	6.18

5/1/20034:10 PM Market Monitoring * Commonly Referred to as Hour Ahead Market (HAM) \$4 - X

NYISO LBMP ZONES

