

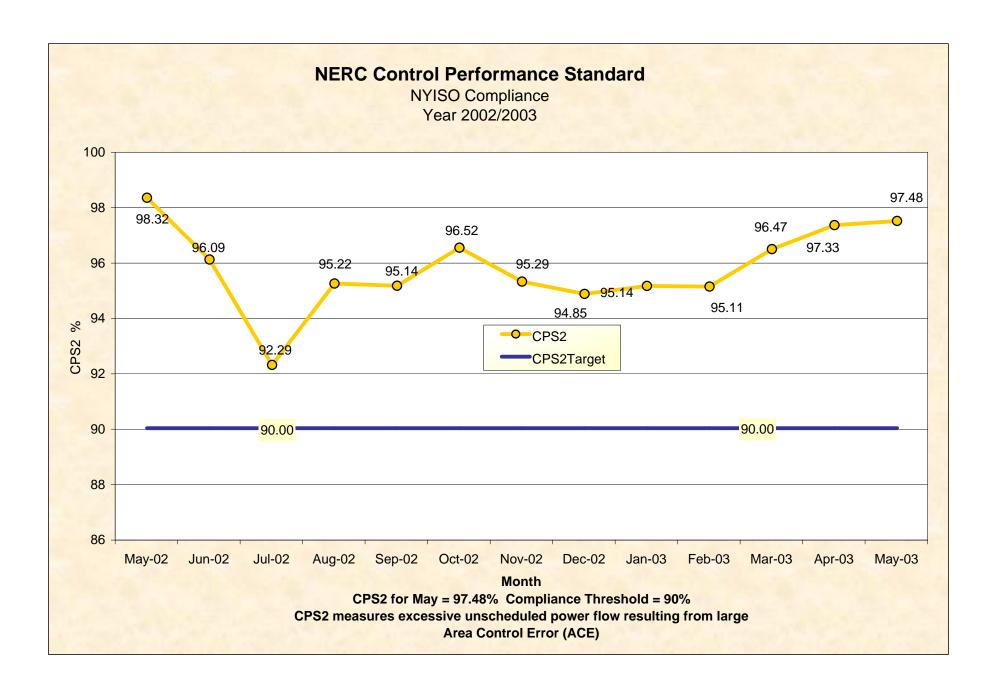
## **NYISO Market Operations Report**

Business Issues Committee Meeting June 10, 2003

Agenda #4

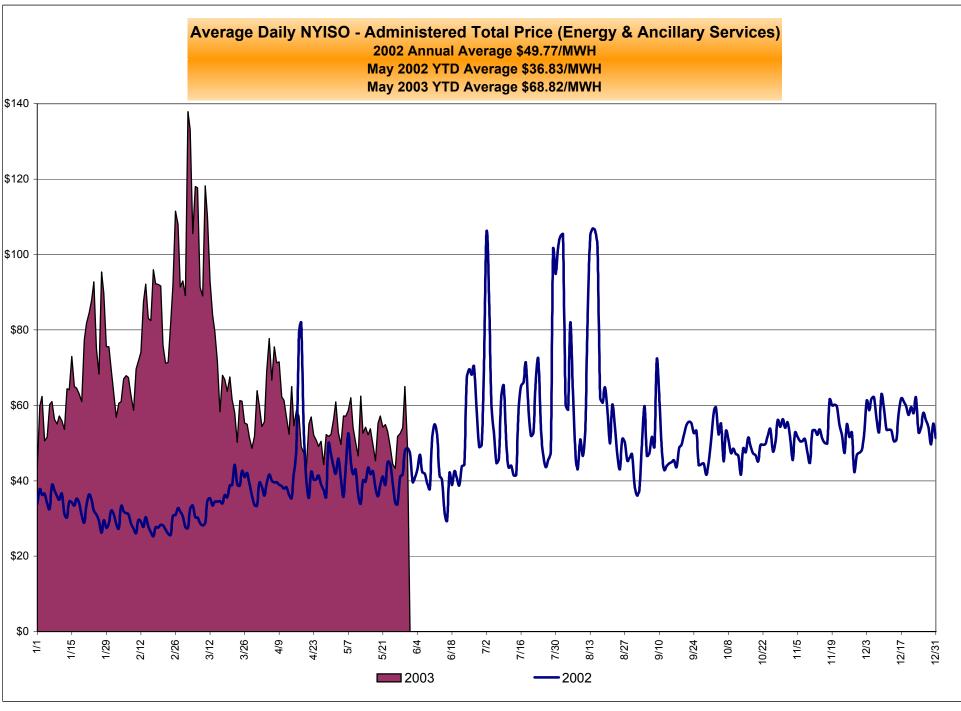
## **Report Items**

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



# Market Performance Highlights for May 2003

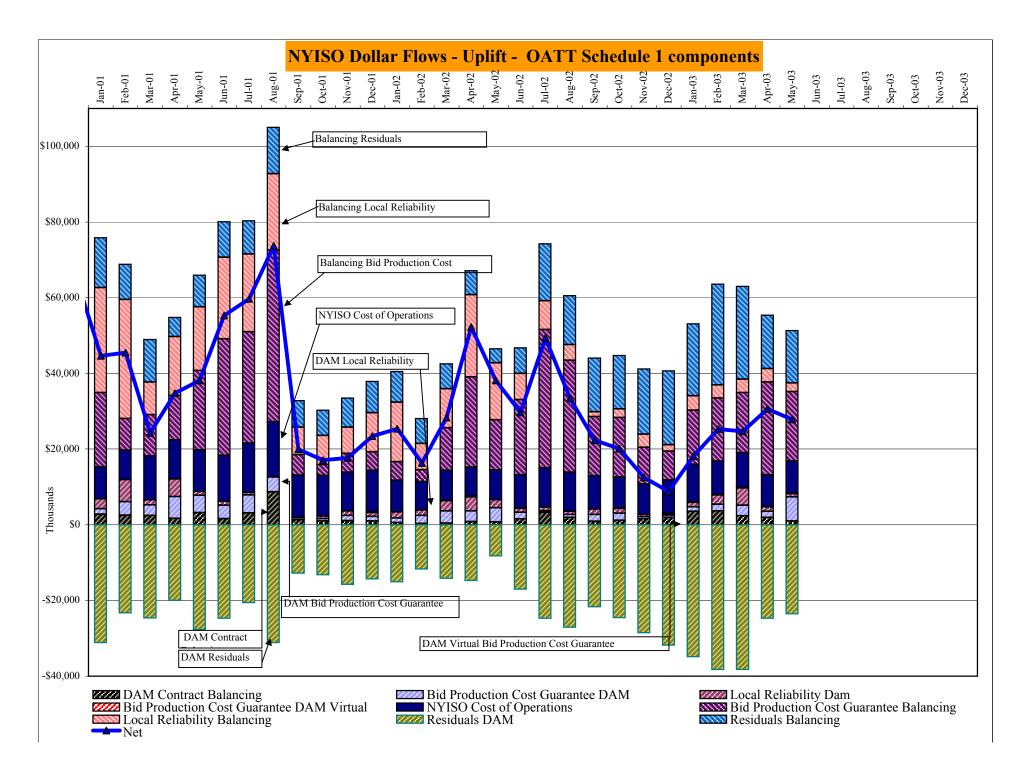
- Total price continues to drop from 1<sup>st</sup> quarter 2003 levels; May down 4.7% from April
  - Total energy send-out is down by 3%
  - Increased supply due to reduced maintenance
- Regulation and Spinning Reserve prices have increased substantially due to lower supply
- SCD interval corrections rise due to error related to backup system utilization. Problem has been identified and corrected.



### NYISO Administered Total Price (Energy and Ancillary Services) from the LBMP Customer point of view

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2003	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	66.41	76.58	78.36	54.26	49.79		-	_	_			
NTAC	0.41	0.35	0.66	0.45	0.44							
Reserve	0.46	0.36	0.47	0.41	0.47							
Regulation	0.26	0.27	0.38	0.31	0.65							
NYISO Cost of Operations	0.68	0.68	0.68	0.68	0.68							
Uplift	0.33	1.02	0.97	1.72	1.47							
Voltage Support and Black Start	0.33	0.33	0.33	0.33	0.34							
Avg Monthly Price	68.90	79.60	81.84	58.16	53.84							
Avg YTD Price	68.90	74.02	76.59	72.21	68.82							
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	48.13	50.10	54.76
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	0.79	0.22	(0.14)
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	50.99	52.24	56.60
Avg YTD Price	33.39	31.37	32.69	35.71	36.83	39.06	44.35	48.39	48.54	48.78	49.10	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

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	NYISO Marke	ets Transaction	ons - 2003									
	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%	46%							
DAM External TC LBMP Energy Sales	1%	1%	1%	1%	2%							
DAM Bilateral - Internal Bilaterals	50%	49%	50%	46%	49%							
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	1%	1%	1%	0%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	1%	1%							
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	2%	2%							
Day Ahead Market	100%	100%	100%	100%	100%							
Balancing Energy LSE Internal LBMP Energy Sales	61%	42%	52%	72%	48%							
Balancing Energy External TC LBMP Energy Sales	54%	73%	95%	73%	69%							
Balancing Energy Bilateral - Internal Bilaterals	-6%	-9%	-2%	0%	-5%							
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	4%	1%	1%	1%	1%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	-38%	0%	0%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-13%	-6%	-8%	-46%	-14%							
Balancing Energy +	100%	100%	100%	100%	100%							
Transactions Summary												
LBMP	49%	50%	49%	52%	49%							
Internal Bilaterals	48%	47%	48%	45%	48%							
Import Bilaterals	1%	1%	1%	1%	0%							
Export Bilaterals	1%	1%	1%	1%	1%							
Wheels Through	1%	1%	1%	1%	1%							
Market Share of Total Load												
Day Ahead Market	97.46%	97.58%	97.21%	98.07%	97.73%							
Balancing Energy +	2.54%	2.42%	2.79%	1.93%	2.27%							
Total MWH	14,557,243	13,010,139	13,502,785	12,233,455	12,308,392							
	NYISO Marke	ets Transaction	ons - 2002									
	NYISO Marke	ets Transaction	ons - 2002 March	April	May	June	July	August	September	October	November	December
Transactions by Market				April	May	June	July	August	September	October	November	December
Transactions by Market  DAM LSE Internal LBMP Energy Sales				April	May 40%	June 43%	July 50%	August 51%	September 46%	October 46%	November 49%	December
	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% 51% 1%	February 42% 1% 52% 1%	March 43% 1%	45% 1% 49% 0%	40% 1%	43% 2%	50% 3%	51% 1% 45% 0%	46% 2% 49% 0%	46% 1%	49% 1%	47% 2% 49% 1%
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% 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%	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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<sup>\*</sup>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.

<sup>+</sup>Balancing Energy: Load(MW) purchased at Real Time LBMP.

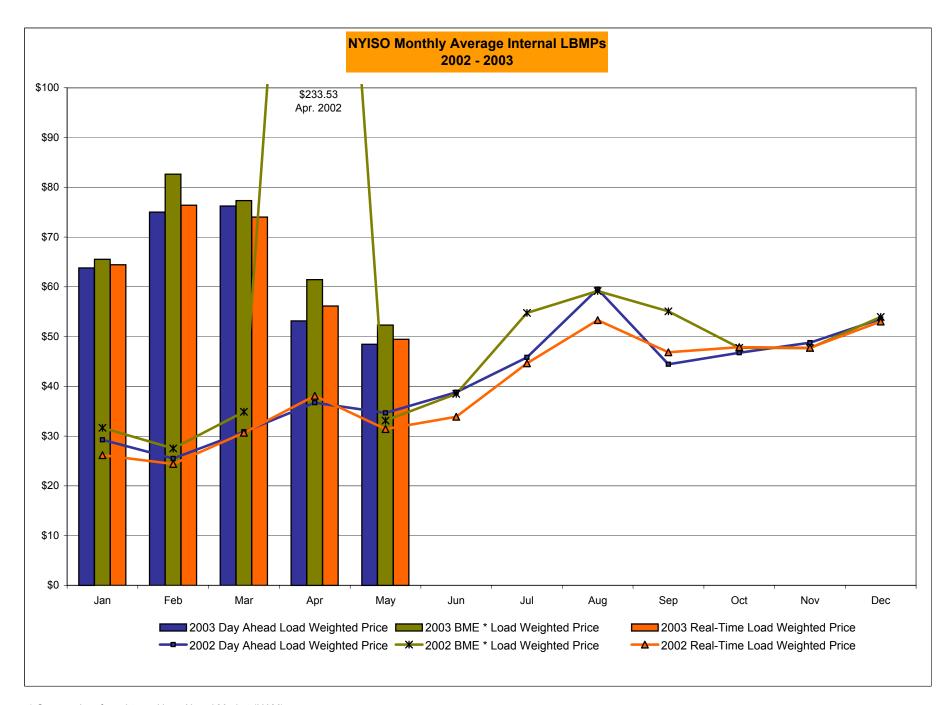
#### **NYISO Markets 2003 Energy Statistics**

	January	February	March	April	May	June	July	August S	September	October	November	December
DAY AHEAD LBMP	•	•		•	•		•	•	·			
Unweighted Price	\$61.33	\$72.81	\$73.18	\$51.58	\$46.43							
Standard Deviation	\$20.09	\$21.12	\$29.70	\$12.47	\$14.03							
Load Wtg.Price	\$63.81	\$75.03	\$76.25	\$53.14	\$48.47							
BME * LBMP												
Unweighted Price	\$63.19	\$80.25	\$74.27	\$59.22	\$50.27							
Standard Deviation	\$25.43	\$41.53	\$32.77	\$25.00	\$16.37							
Load Wtg.Price	\$65.54	\$82.65	\$77.33	\$61.45	\$52.31							
REAL TIME LBMP												
Unweighted Price	\$61.53	\$74.03	\$70.54	\$53.94	\$46.74							
Standard Deviation	\$30.16	\$37.46	\$37.97	\$28.70	\$23.03							
Load Wtg.Price	\$64.43	\$76.41	\$74.02	\$56.14	\$49.44							
Average Daily Energy Sendout/Month GWh	458	450	418	393	382							

#### **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

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



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

#### May 2003 Zonal Statistics for NYISO (\$/MWH)

DAY AUGAD I DMD	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	26.60	27.00	20.05	20.04	20.04	44.00	40.00	44.50	44.05	EO 44	60.24
Unweighted Price Standard Deviation	36.60 11.11	37.90 11.29	39.05 11.26	38.81 11.64	39.94 11.92	41.22 12.30	42.03 12.86	41.58 13.46	41.85 13.89	52.11 16.86	60.31 22.73
Standard Deviation	11.11	11.29	11.20	11.04	11.92	12.50	12.00	13.40	13.09	10.00	22.13
BME * LBMP											
Unweighted Price	37.56	39.29	42.19	41.72	43.03	44.13	45.66	47.39	48.07	53.98	73.61
Standard Deviation	12.94	13.35	13.50	14.00	14.24	14.63	15.31	20.03	20.22	21.85	30.96
<b>REAL TIME LBMP</b>											
Unweighted Price	36.51	37.87	38.31	37.96	39.27	40.52	40.73	44.83	45.91	50.81	66.20
Standard Deviation	18.03	18.42	18.61	18.64	19.16	19.58	20.33	31.53	31.63	32.12	37.45
	ONTARIO HYDRO	HYDRO QUEBEC	PJM	NEW ENGLAND							
	Zone O	Zone M	Zone P	Zone N							
DAY AHEAD LBMP	Zone O	Zone W	Zone	Zone N							
Unweighted Price	35.23	39.15	37.89	41.48							
Standard Deviation	10.48	11.35	12.32	12.46							
BME * LBMP											
Unweighted Price	36.66	42.42	38.59	45.26							
Standard Deviation	12.55	13.35	15.84	14.62							
REAL TIME LBMP											
Unweighted Price	32.64	38.98	36.08	41.34							

15.92

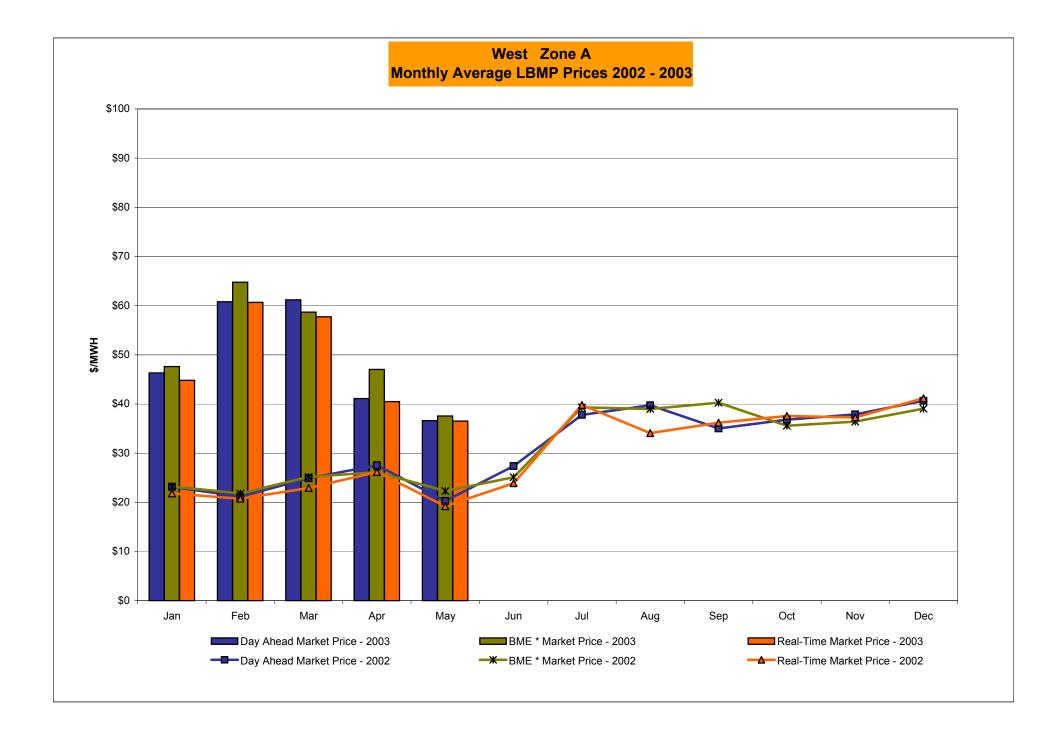
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19.29

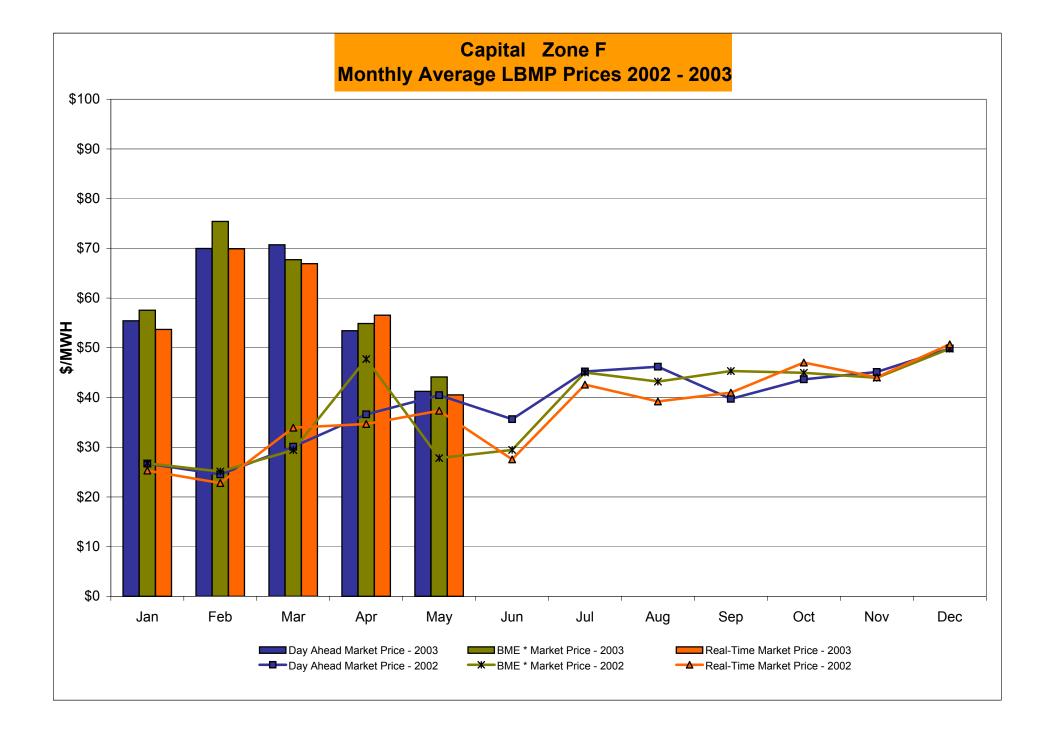
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Standard Deviation

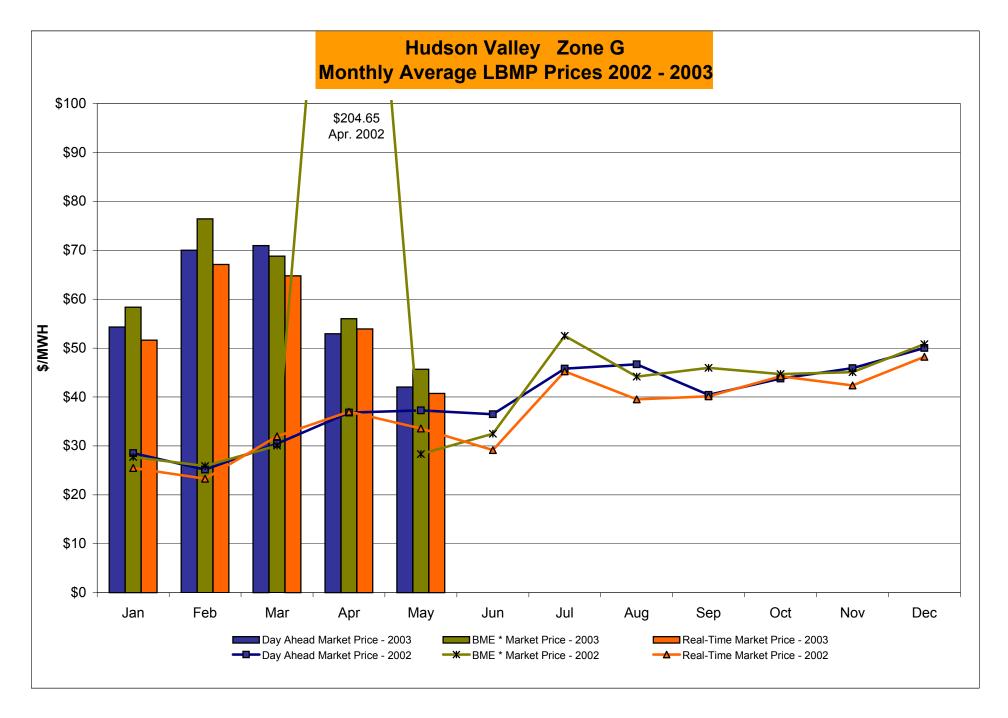
<sup>\*</sup>Commonly Referred as Hour Ahead Market (HAM)



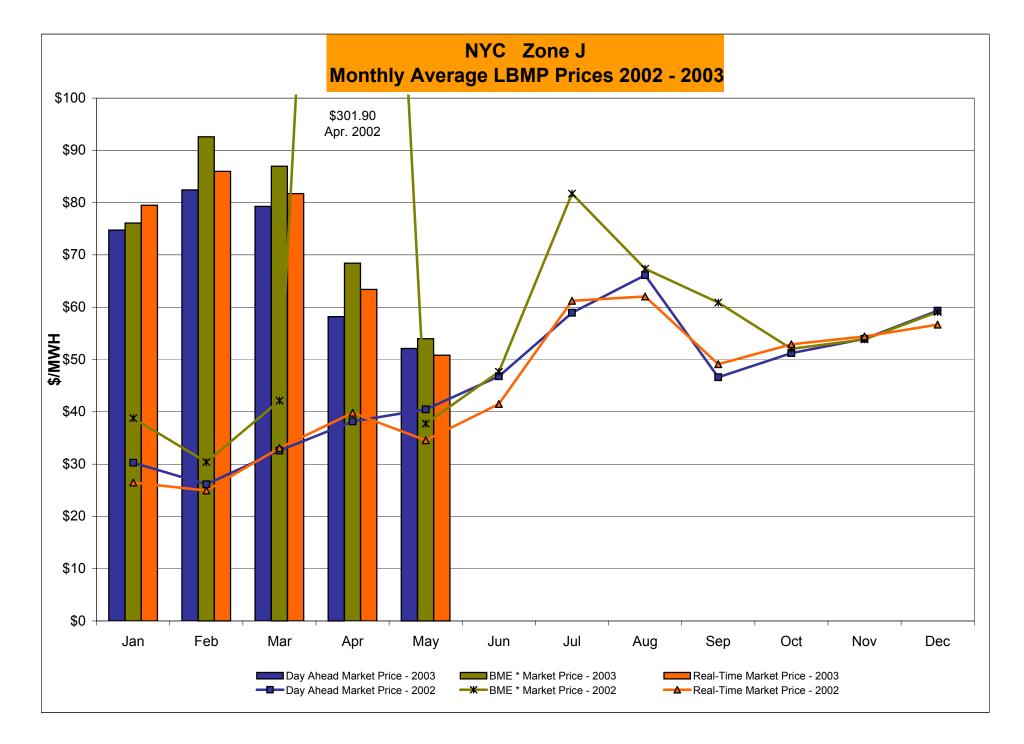
<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)



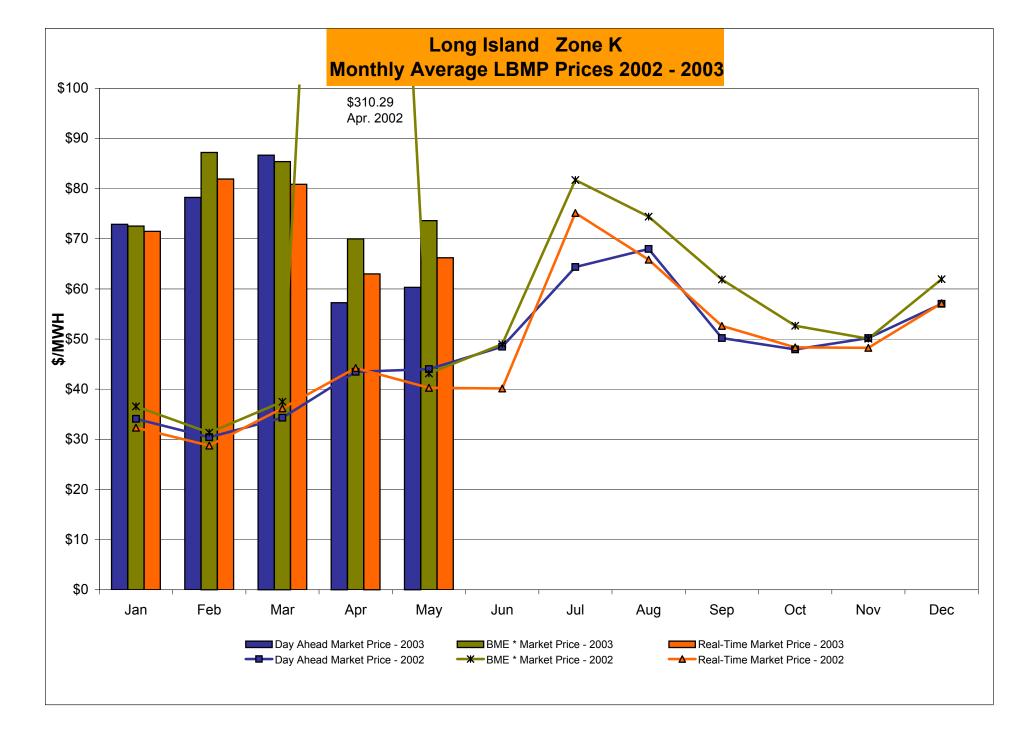
<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)



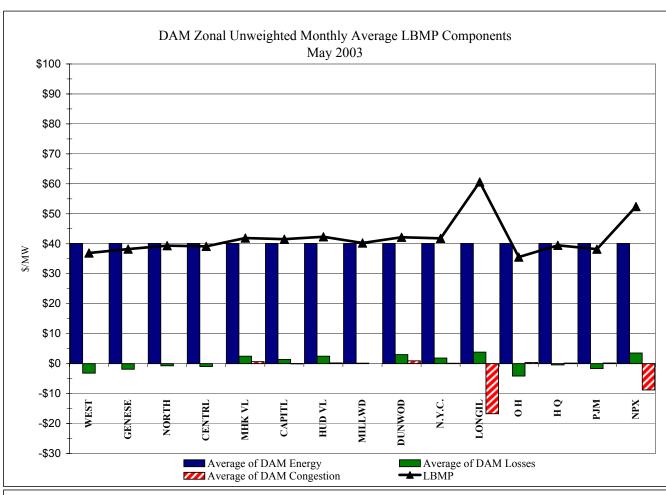
<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)

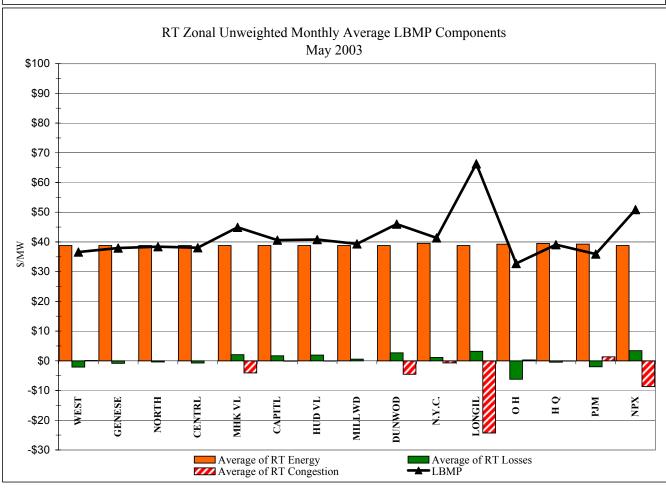


<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)

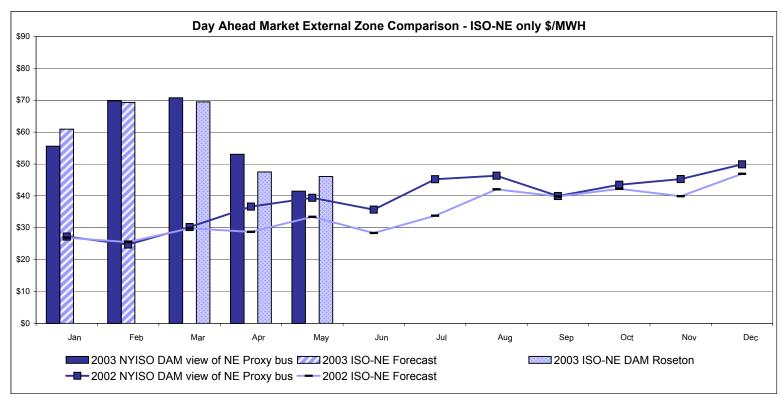


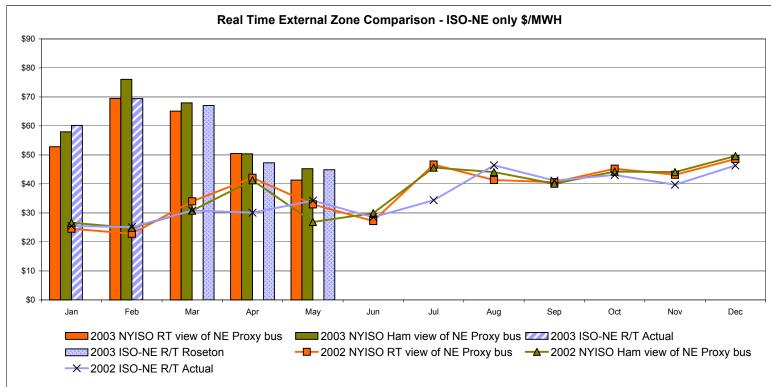
<sup>\*</sup> Commonly referred to as Hour Ahead Market (HAM)





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



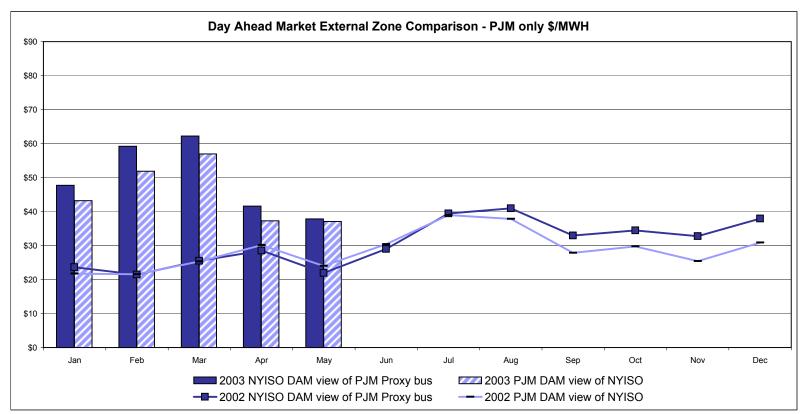


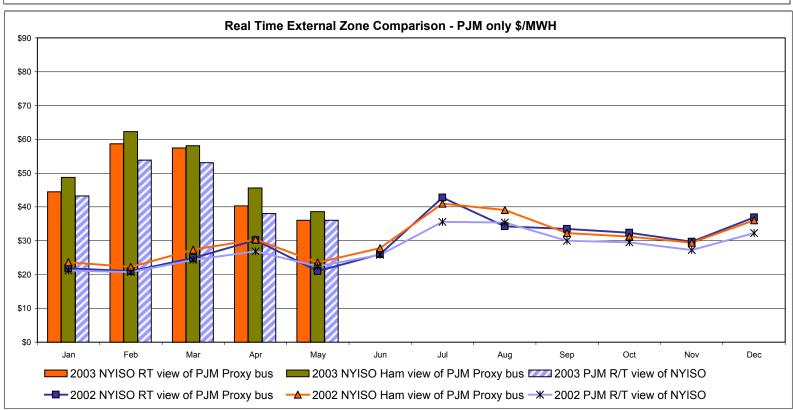
#### Note:

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**

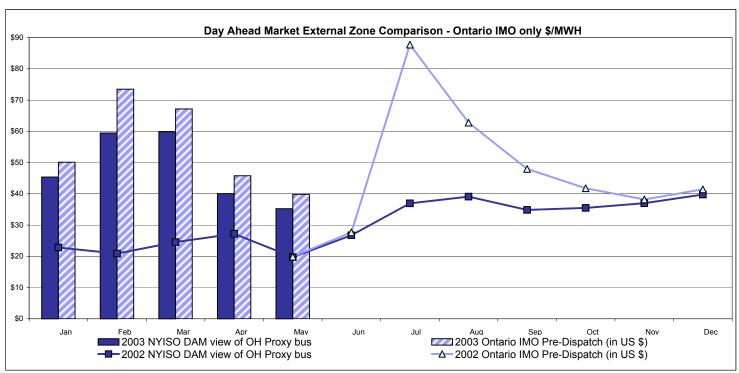


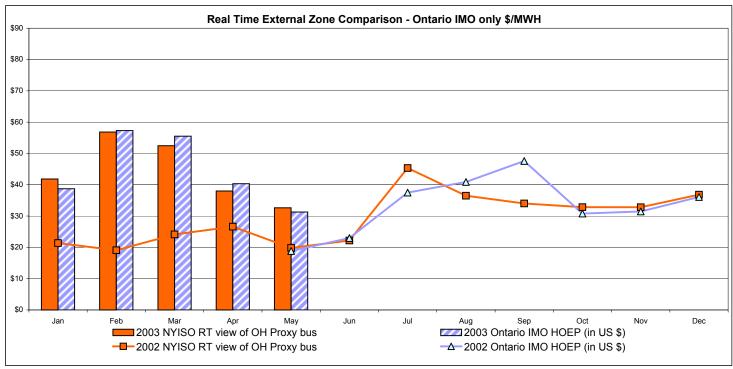


Note:

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

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





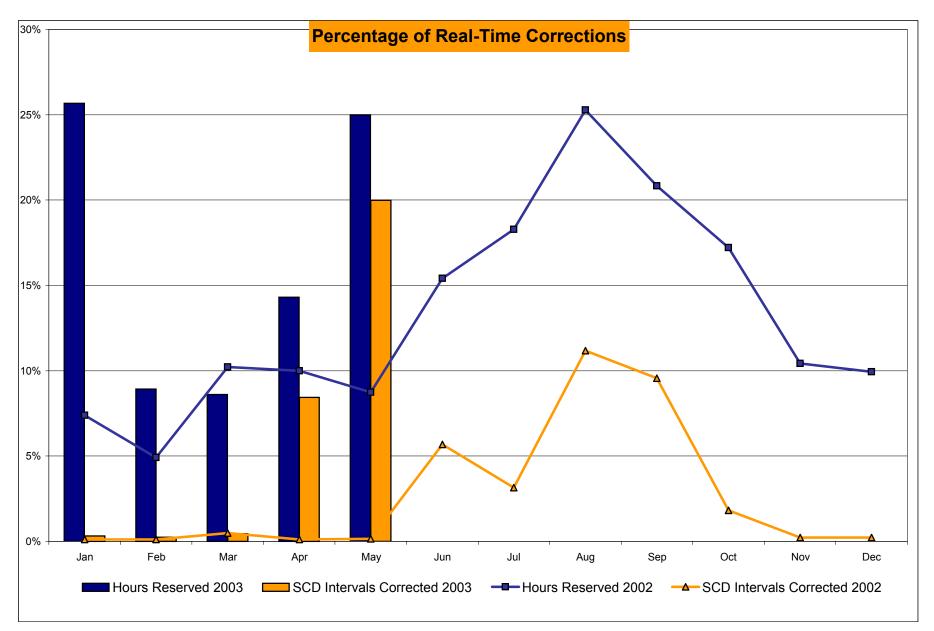
Notes: Exchange factor used for May 2003 was .72 to US \$

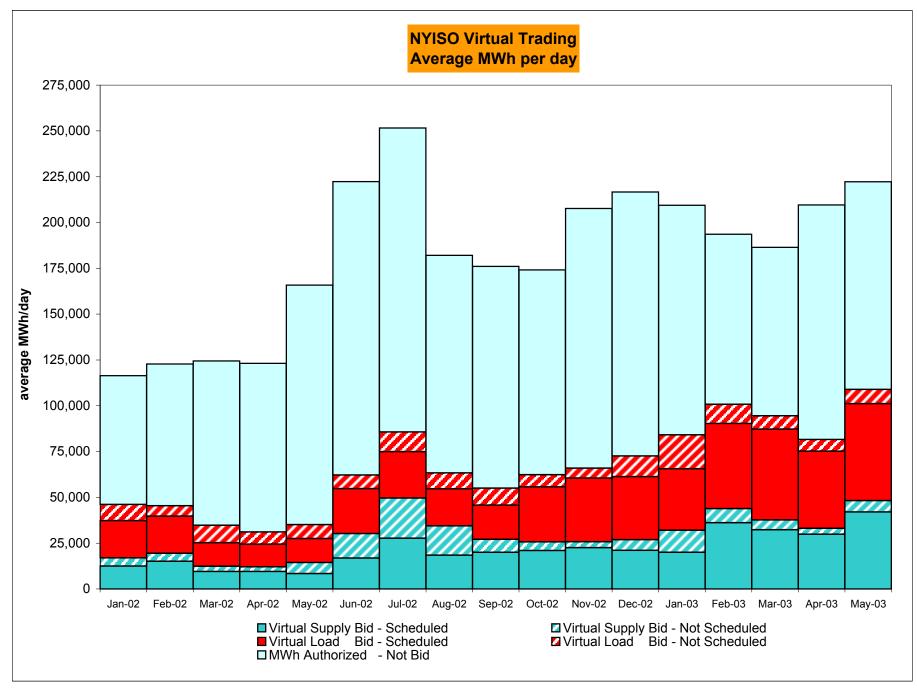
HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

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

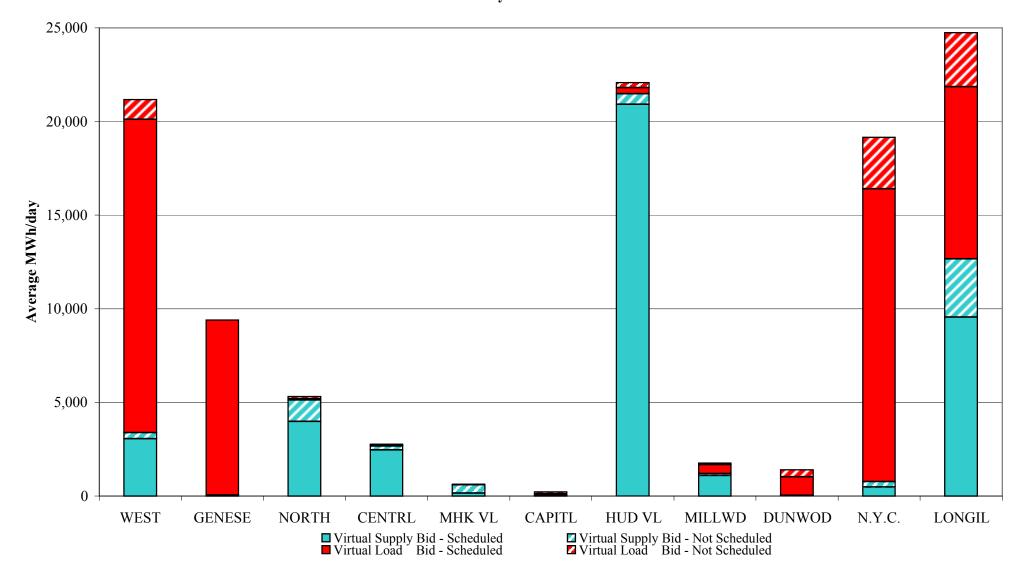
#### **NYISO Price Corrections 2003**

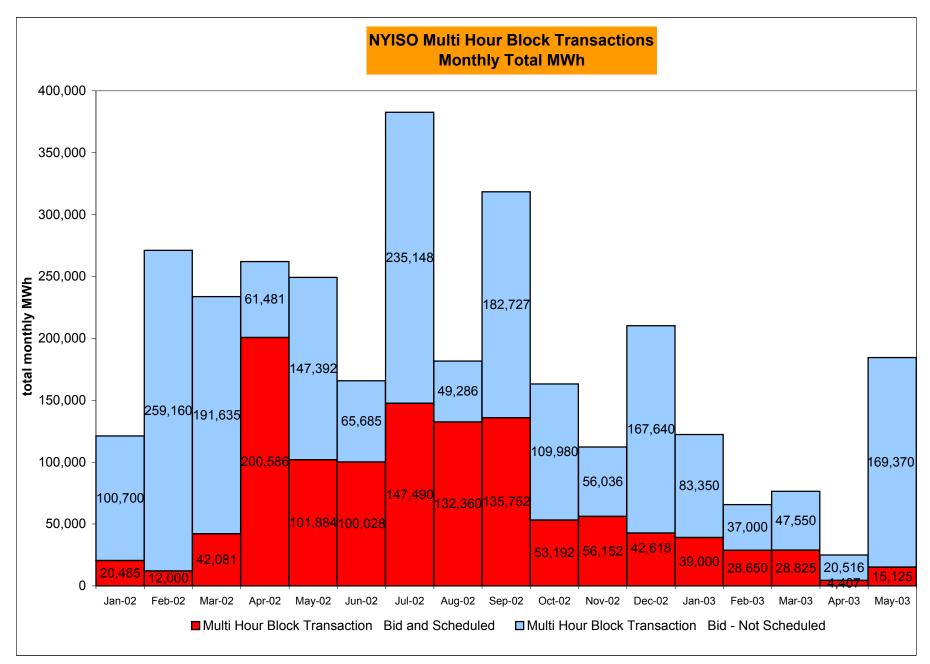
Interval Corrections	January	February	March	April	May	June	July	August	September	October	November	December
Number of Intervals corrected in the month	35	25	49	891	2,254							
Number of Intervals in the month	10,986	10,197	10,918	10,554	11,274							
Percentage of intervals corrected in the month	0.32%	0.25%	0.45%	8.44%	19.99%							
Number of Intervals corrected Year-to-date	35	60	109	1,000	3,254							
Number of Intervals Year-to-date	10,986	21,183	32,101	42,655	53,929							
Percentage of intervals corrected Year-to-date	0.32%	0.28%	0.34%	2.35%	6.04%							
Hours Reserved												
Number of hours reserved in the month	191	60	64	103	186							
Number of hours in the month	744	672	744	720	744							
Percentage of hours reserved in the month	25.67%	8.93%	8.60%	14.31%	25.00%							
Number of hours reserved Year-to-date	191	251	315	418	604							
Number of hours Year-to-date	744	1,416	2.160	2,880	3.624							
Percentage of hours reserved Year-to-date	25.67%	15.74%	14.58%	14.51%	16.67%							
Days Without Corrections												
Days without price corrections in the month	18	15	14	9	8							
Days without price corrections Year-to-date	18	33	47	56	64							
NYISO Price Corrections 2002												
Interval Corrections	January	February	March	April	May	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

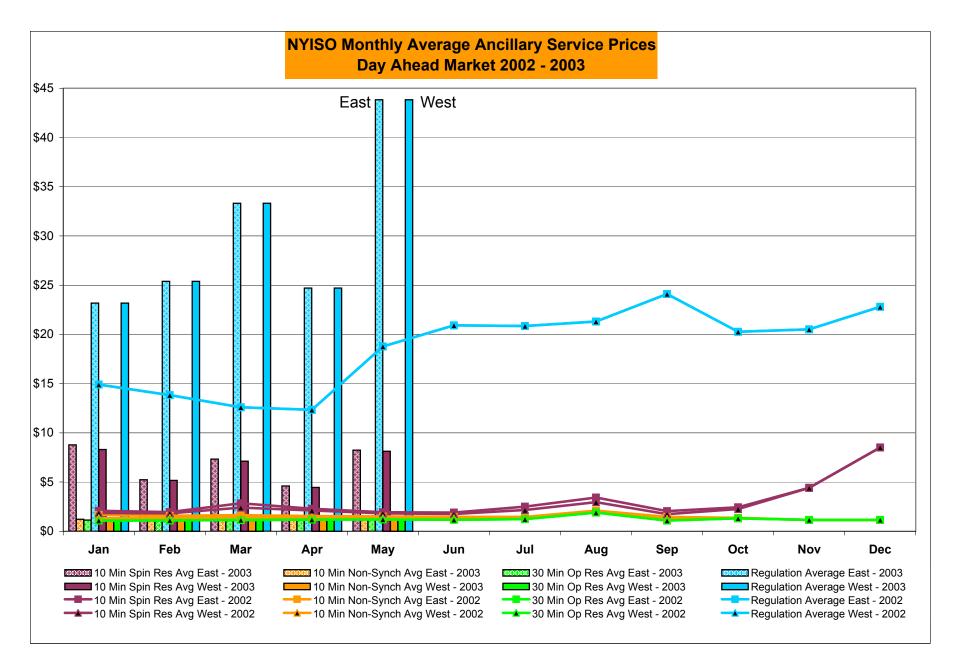


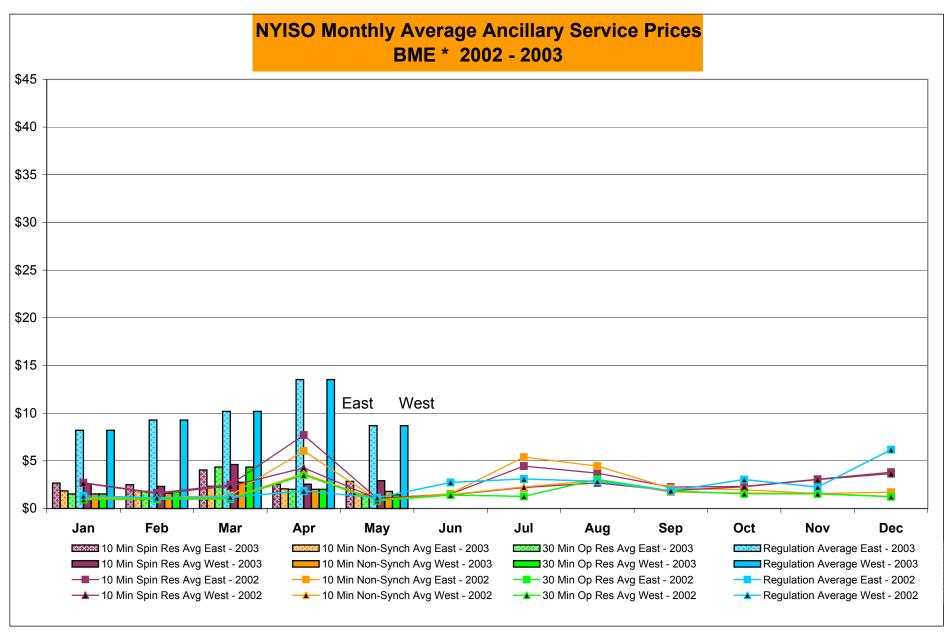


#### Virtual Load and Supply Zonal Statistics May 2003









<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
CILLARY SERVICES Unweig	hted Price (\$/M	WH) 2003										
Day Ahead Market												
10 Min Spin East	8.78	5.24	7.33	4.60	8.24							
10 Min Spin West	8.30	5.17	7.12	4.45	8.12							
10 Min Non Synch East	1.22	1.36	1.60	1.61	1.48							
10 Min Non Synch West	1.15	1.32	1.45	1.54	1.45							
30 Min East	1.14	1.30	1.41	1.48	1.42							
30 Min West	1.14	1.30	1.41	1.48	1.42							
Regulation East	23.17	25.39	33.31	24.70	43.82							
Regulation West	23.17	25.39	33.31	24.70	43.82							
BME* Market												
10 Min Spin East	2.67	2.50	4.05	2.54	2.85							
10 Min Spin West	2.59	2.32	4.61	2.55	2.93							
10 Min Non Synch East	1.85	1.89	2.34	2.07	1.53							
10 Min Non Synch West	1.53	1.59	2.75	2.02	1.79							
30 Min East	1.52	1.80	4.34	2.02	1.44							
	1.52	1.80	4.34	2.02	1.44							
30 Min West												
		9.28	10.19	13.52	8.69							
Regulation East Regulation West	8.21 8.21	9.28 9.28 WH) 2002	10.19 10.19	13.52 13.52	8.69 8.69							
Regulation East	8.21 8.21	9.28										
Regulation East Regulation West  CILLARY SERVICES Unweig	8.21 8.21	9.28		13.52	8.69	1.90	2.51	3.43	2.04	2.43	4.42	8.52
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market 10 Min Spin East	8.21 8.21 <u>hted Price (\$/M</u>	9.28 <b>WH) 2002</b>	10.19			1.90 1.75	2.51 2.16	3.43 2.96	2.04 1.74	2.43 2.26	4.42 4.41	
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market	8.21 8.21 hted Price (\$/M 2.09	9.28 <b>WH) 2002</b> 1.95	10.19 2.85	13.52 2.29	8.69 1.93			3.43 2.96 2.09			4.42 4.41 1.15	8.52
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market 10 Min Spin East 10 Min Spin West	8.21 8.21 hted Price (\$/M 2.09 1.85	9.28 WH) 2002 1.95 1.81	10.19 2.85 2.40	13.52 2.29 2.11	8.69 1.93 1.81	1.75	2.16	2.96	1.74	2.26	4.41	8.52 1.16
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68	9.28 WH) 2002 1.95 1.81 1.58	2.85 2.40 1.64	2.29 2.11 1.55	1.93 1.81 1.52	1.75 1.46	2.16 1.47	2.96 2.09	1.74 1.46	2.26 1.37	4.41 1.15	8.52 1.16 1.16
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34	9.28  WH) 2002  1.95 1.81 1.58 1.36	2.85 2.40 1.64 1.39	2.29 2.11 1.55 1.40	1.93 1.81 1.52 1.34	1.75 1.46 1.32	2.16 1.47 1.35	2.96 2.09 1.96	1.74 1.46 1.27	2.26 1.37 1.33	4.41 1.15 1.15	8.52 1.16 1.16 1.16
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11	2.85 2.40 1.64 1.39 1.13	2.29 2.11 1.55 1.40 1.19	1.93 1.81 1.52 1.34 1.20	1.75 1.46 1.32 1.17	2.16 1.47 1.35 1.24	2.96 2.09 1.96 1.90	1.74 1.46 1.27 1.09	2.26 1.37 1.33 1.32	4.41 1.15 1.15 1.15	8.52 1.16 1.16 1.16 1.16
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11	2.85 2.40 1.64 1.39 1.13 1.13	2.29 2.11 1.55 1.40 1.19 1.19	1.93 1.81 1.52 1.34 1.20 1.20	1.75 1.46 1.32 1.17 1.17	2.16 1.47 1.35 1.24 1.24	2.96 2.09 1.96 1.90 1.90	1.74 1.46 1.27 1.09 1.09	2.26 1.37 1.33 1.32 1.32	4.41 1.15 1.15 1.15 1.15	8.52 1.16 1.16 1.16 22.80
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83	2.85 2.40 1.64 1.39 1.13 1.13 12.59	2.29 2.11 1.55 1.40 1.19 1.19 12.33	1.93 1.81 1.52 1.34 1.20 1.20 18.78	1.75 1.46 1.32 1.17 1.17 20.92	2.16 1.47 1.35 1.24 1.24 20.85	2.96 2.09 1.96 1.90 1.90 21.31	1.74 1.46 1.27 1.09 1.09 24.10	2.26 1.37 1.33 1.32 1.32 20.27	4.41 1.15 1.15 1.15 1.15 20.51	8.52 1.16 1.16 1.16 22.80
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83	2.85 2.40 1.64 1.39 1.13 1.13 12.59	2.29 2.11 1.55 1.40 1.19 1.19 12.33	1.93 1.81 1.52 1.34 1.20 1.20 18.78	1.75 1.46 1.32 1.17 1.17 20.92	2.16 1.47 1.35 1.24 1.24 20.85	2.96 2.09 1.96 1.90 1.90 21.31	1.74 1.46 1.27 1.09 1.09 24.10	2.26 1.37 1.33 1.32 1.32 20.27	4.41 1.15 1.15 1.15 1.15 20.51	8.52 1.16 1.16 1.16 1.16 22.80 22.80
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  BME* Market	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83 13.83	2.85 2.40 1.64 1.39 1.13 1.13 12.59 12.59	2.29 2.11 1.55 1.40 1.19 1.19 12.33 12.33	1.93 1.81 1.52 1.34 1.20 1.20 18.78 18.78	1.75 1.46 1.32 1.17 1.17 20.92 20.92	2.16 1.47 1.35 1.24 1.24 20.85 20.85	2.96 2.09 1.96 1.90 1.90 21.31 21.31	1.74 1.46 1.27 1.09 1.09 24.10 24.10	2.26 1.37 1.33 1.32 1.32 20.27 20.27	4.41 1.15 1.15 1.15 1.15 20.51 20.51	8.52 1.16 1.16 1.16 1.16 22.80 22.80
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  BME* Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90 14.90	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83 13.83	2.85 2.40 1.64 1.39 1.13 1.13 12.59 12.59	2.29 2.11 1.55 1.40 1.19 1.19 12.33 12.33	1.93 1.81 1.52 1.34 1.20 1.20 18.78 18.78	1.75 1.46 1.32 1.17 1.17 20.92 20.92	2.16 1.47 1.35 1.24 1.24 20.85 20.85	2.96 2.09 1.96 1.90 1.90 21.31 21.31	1.74 1.46 1.27 1.09 1.09 24.10 24.10	2.26 1.37 1.33 1.32 1.32 20.27 20.27	4.41 1.15 1.15 1.15 1.15 20.51 20.51	8.52 1.16 1.16 1.16 1.16 22.80 22.80 3.8° 3.8°
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  BME* Market 10 Min Spin East 10 Min Spin East	8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90 14.90	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83 13.83  1.62 1.55	2.85 2.40 1.64 1.39 1.13 1.13 12.59 12.59	2.29 2.11 1.55 1.40 1.19 1.19 12.33 12.33	1.93 1.81 1.52 1.34 1.20 1.20 18.78 18.78	1.75 1.46 1.32 1.17 1.17 20.92 20.92	2.16 1.47 1.35 1.24 1.24 20.85 20.85	2.96 2.09 1.96 1.90 1.90 21.31 21.31	1.74 1.46 1.27 1.09 1.09 24.10 24.10	2.26 1.37 1.33 1.32 1.32 20.27 20.27 2.32 2.29	4.41 1.15 1.15 1.15 1.15 20.51 20.51 3.07 3.04	8.52 1.16 1.16 1.16 22.80 22.80 3.8° 3.66 1.70
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  BME* Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West	8.21 8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90 14.90 2.70 2.67 1.11	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83 13.83  1.62 1.55 1.13	2.85 2.40 1.64 1.39 1.13 1.13 12.59 12.59	2.29 2.11 1.55 1.40 1.19 1.233 12.33 7.71 4.26 6.03	1.93 1.81 1.52 1.34 1.20 1.20 18.78 18.78	1.75 1.46 1.32 1.17 1.17 20.92 20.92 1.53 1.43 1.56	2.16 1.47 1.35 1.24 1.24 20.85 20.85 4.45 2.19 5.38	2.96 2.09 1.96 1.90 1.90 21.31 21.31 3.71 2.69 4.45	1.74 1.46 1.27 1.09 1.09 24.10 24.10 2.25 1.88 2.12	2.26 1.37 1.33 1.32 1.32 20.27 20.27 2.32 2.29 1.96	4.41 1.15 1.15 1.15 1.15 20.51 20.51 3.07 3.04 1.58	8.52 1.16 1.16 1.16 22.80 22.80 3.8° 3.66 1.70
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  BME* Market  10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East	8.21 8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90 14.90 2.70 2.67 1.11 0.99	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83 13.83  1.62 1.55 1.13 1.05	2.85 2.40 1.64 1.39 1.13 1.13 12.59 12.59 2.51 2.34 1.35 1.12	2.29 2.11 1.55 1.40 1.19 1.19 12.33 12.33 7.71 4.26 6.03 3.65	1.93 1.81 1.52 1.34 1.20 1.20 18.78 18.78	1.75 1.46 1.32 1.17 1.17 20.92 20.92 1.53 1.43 1.56 1.46	2.16 1.47 1.35 1.24 1.24 20.85 20.85 4.45 2.19 5.38 2.27	2.96 2.09 1.96 1.90 1.90 21.31 21.31 3.71 2.69 4.45 2.94	1.74 1.46 1.27 1.09 1.09 24.10 24.10 2.25 1.88 2.12 1.74	2.26 1.37 1.33 1.32 1.32 20.27 20.27 2.32 2.29 1.96 1.63	4.41 1.15 1.15 1.15 1.15 20.51 20.51 3.07 3.04 1.58 1.58	8.52 1.16 1.16 1.16 22.80 22.80 3.81 3.66 1.70 1.26
Regulation East Regulation West  CILLARY SERVICES Unweig  Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  BME* Market  10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East	8.21 8.21 8.21 hted Price (\$/M 2.09 1.85 1.68 1.34 1.09 1.09 14.90 14.90 2.70 2.67 1.11 0.99 0.95	9.28  WH) 2002  1.95 1.81 1.58 1.36 1.11 1.11 13.83 13.83  1.62 1.55 1.13 1.05 0.97	2.85 2.40 1.64 1.39 1.13 1.13 12.59 12.59 2.51 2.34 1.35 1.12 1.01	2.29 2.11 1.55 1.40 1.19 1.19 12.33 12.33 7.71 4.26 6.03 3.65 3.54	1.93 1.81 1.52 1.34 1.20 1.20 18.78 18.78	1.75 1.46 1.32 1.17 1.17 20.92 20.92 1.53 1.43 1.56 1.46 1.41	2.16 1.47 1.35 1.24 1.24 20.85 20.85 4.45 2.19 5.38 2.27 1.28	2.96 2.09 1.96 1.90 21.31 21.31 3.71 2.69 4.45 2.94 3.05	1.74 1.46 1.27 1.09 1.09 24.10 24.10 2.25 1.88 2.12 1.74 1.85	2.26 1.37 1.33 1.32 1.32 20.27 20.27 2.32 2.29 1.96 1.63 1.54	4.41 1.15 1.15 1.15 1.15 20.51 20.51 3.07 3.04 1.58 1.58	8.52 8.52 1.16 1.16 1.16 22.80 22.80 3.81 3.66 1.70 1.26 1.24 1.24 6.18

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

# NYISO LBMP ZONES

