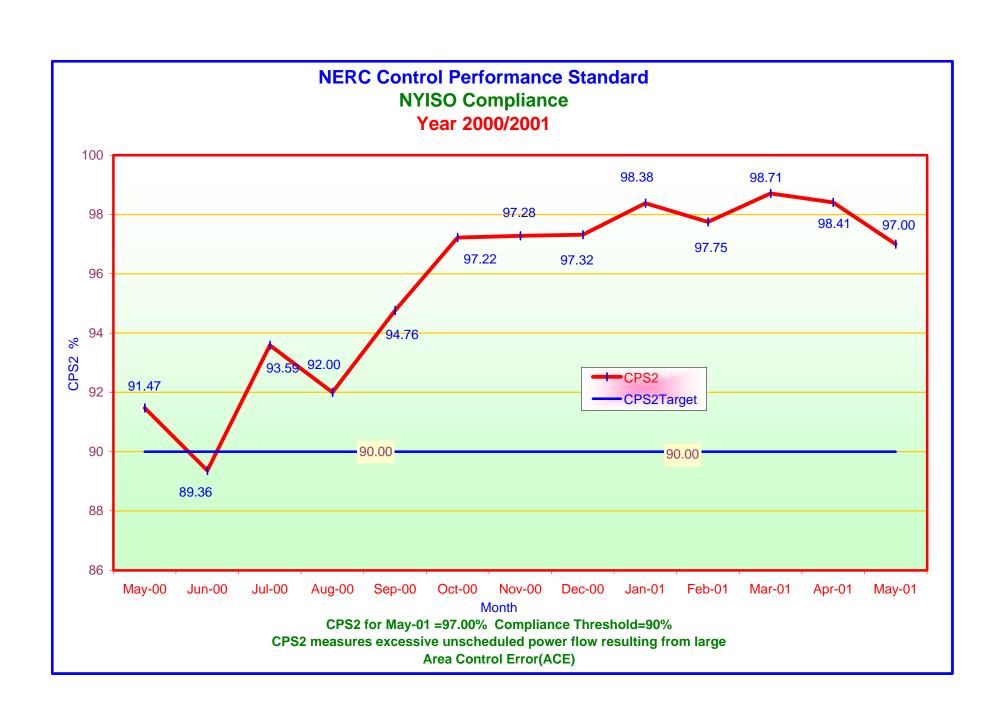


# **NYISO Market Operations Report**

Business Issues Committee Meeting
June 21, 2001
Kathy Whitaker, Manager Customer Relations

# **Market Operations Report**

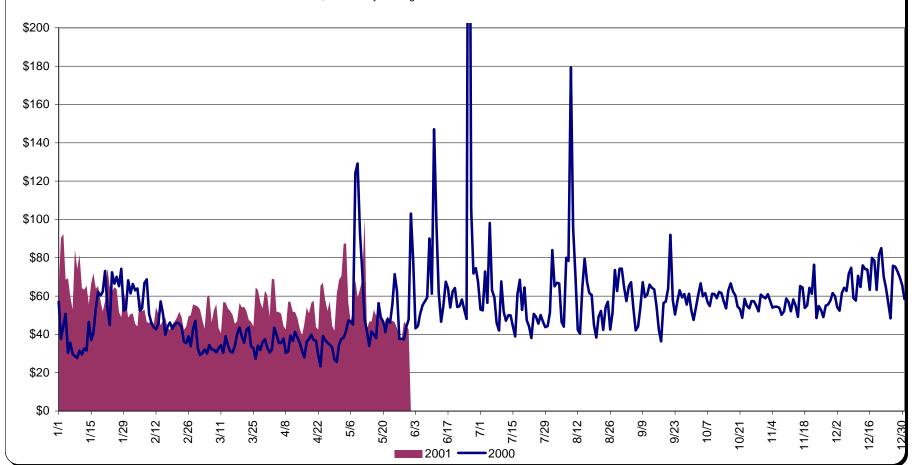
- 1) Reliability Indicators
  - NERC Criteria (CPS-2 Curve)
- 2) Market Performance Highlights
- 3) Summer Capacity Status
- 4) Summer Preparations Schedule
- 5) MOU Status



## **Average Daily NYISO - Administered Total Price (Energy & Ancillary Services)**

2000 Annual Average \$57.81/MWH Jan to May 2000 Average \$45.54/MWH Jan to May 2001 Average \$56.01/MWH

June 26, 2000 Daily Average 414.14



#### **NYISO Markets 2001 Energy Statistics**

	January	February	March	April	May	June	July	August	September	October	November	December
DAY AHEAD LBMP												
Unweighted Price	\$56.41	\$42.09	\$46.94	\$45.53	\$46.19							
Standard Deviation	\$17.87	\$9.65	\$11.93	\$14.27	\$15.77							
Load Wtg.Price	\$58.34	\$43.25	\$48.23	\$47.48	\$48.57							
BME * LBMP												
Unweighted Price	\$54.40	\$47.43	\$53.87	\$56.37	\$199.56							
Standard Deviation	\$16.85	\$15.62	\$52.54	\$39.25	\$3,150.85							
Load Wtg.Price	\$55.95	\$48.86	\$55.98	\$59.22	\$218.73							
REAL TIME LBMP												
Unweighted Price	\$50.15	\$41.84	\$48.43	\$41.94	\$47.81							
Standard Deviation	\$19.32	\$22.21	\$35.68	\$28.52	\$51.99							
Load Wtg.Price	\$51.66	\$42.94	\$50.27	\$44.44	\$51.16							
Average Daily Energy Sendout/Month GWh	443	434	423	388	397							

#### **NYISO Markets 2000 Energy Statistics**

	January	February	March	April	May	June	July	August	September	October	November	December
DAY AHEAD LBMP												
Unweighted Price	\$38.64	\$37.09	\$29.24	\$29.55	\$37.73	\$57.96	\$40.66	\$50.18	\$46.47	\$51.91	\$50.07	\$58.34
Standard Deviation	\$16.64	\$12.75	\$8.22	\$9.57	\$16.65	\$67.35	\$18.96	\$37.40	\$15.52	\$12.64	\$9.67	\$18.03
Load Wtg.Price	\$40.09	\$38.31	\$30.05	\$30.60	\$39.80	\$64.23	\$43.32	\$54.34	\$48.50	\$53.46	\$51.13	\$60.81
BME * LBMP												
Unweighted Price	\$52.24	\$52.40	\$27.44	\$30.95	\$135.39	\$230.91	\$40.26	\$121.45	\$59.17	\$55.44	\$49.31	\$61.57
Standard Deviation	\$391.99	\$244.80	\$21.97	\$14.13	\$5,206.45	\$2,355.22	\$34.84	\$1,207.51	\$92.35	\$21.42	\$14.92	\$31.11
Load Wtg.Price	\$55.95	\$55.25	\$28.21	\$31.93	\$210.52	\$290.60	\$42.26	\$137.53	\$61.96	\$57.29	\$50.59	\$65.35
REAL TIME LBMP												
Unweighted Price	\$49.46	\$34.52	\$27.40	\$27.04	\$41.17	\$46.26	\$36.81	\$48.86	\$50.12	\$51.74	\$48.89	\$58.28
Standard Deviation	\$99.49	\$20.65	\$20.80	\$13.14	\$74.60	\$91.83	\$21.87	\$59.58	\$53.73	\$19.28	\$19.89	\$48.47
Load Wtg.Price	\$54.16	\$36.06	\$28.57	\$28.11	\$48.07	\$53.28	\$39.42	\$54.84	\$54.11	\$53.62	\$50.41	\$60.38
Average Daily Energy Sendout/Month GWh	444	431	404	391	400	456	450	468	432	399	415	450

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

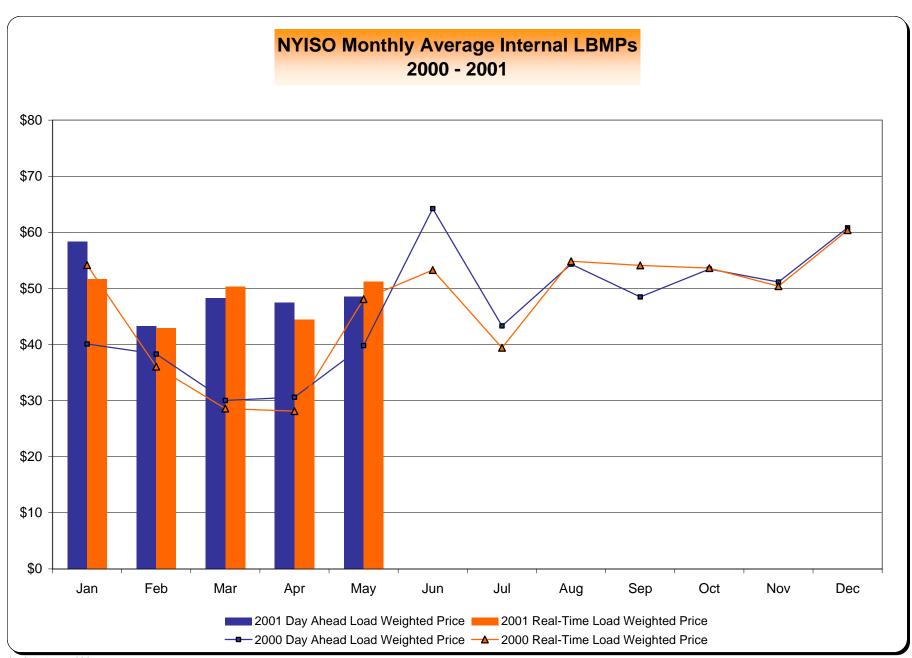
#### **NYISO Markets 2001 Transactions**

	January	February	March	April	May	June	July	August	September	October	November	December
Transactions by Market												
DAM LSE Internal LBMP Energy Sales	41%	39%	37%	36%	38%							
DAM External TC LBMP Energy Sales	3%	2%	1%	2%	1%							
DAM Bilateral - Internal Bilaterals	50%	51%	55%	55%	54%							
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	1%	0%	0%	0%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	1%	1%	1%							
DAM Bilateral - Wheel Through Bilaterals	4%	6%	5%	5%	4%							
Day Ahead Market	100%	100%	100%	100%	100%							
Balancing Energy LSE Internal LBMP Energy Sales	63%	13%	97%	-1%	65%							
Balancing Energy External TC LBMP Energy Sales	56%	81%	26%	39%	59%							
Balancing Energy Bilateral - Internal Bilaterals	-8%	-1%	-7%	138%	-2%							
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	2%	23%	11%	6%	2%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-13%	-17%	-27%	-82%	-24%							
Balancing Energy *	100%	100%	100%	100%	100%							
Transactions Summary LBMP	45%	42%	40%	38%	41%							
Internal Bilaterals	49%	51%	54%	57%	54%							
Import Bilaterals	1%	1%	1%	0%	0%							
Export Bilaterals	1%	1%	1%	1%	1%							
Wheels Through	4%	5%	4%	4%	4%							
Wilcold Tillough	770	370	470	470	470							
Market Share of Total Load												
Day Ahead Market	97.71%	98.07%	98.03%	98.65%	98.20%							
Balancing Energy *	2.29%	1.93%	1.97%	1.35%	1.80%							
Total MWH	14,684,835	13,195,754	13,898,304	11,960,273	13,211,577							

#### **NYISO Markets 2000 Transactions**

		January	February	March	April	May	June	July	August	September	October	November	December
Transactions Summary													
LBMP		30%	31%	35%	37%	42%	44%	45%	45%	50%	48%	43%	47%
Internal Bilaterals		64%	63%	60%	58%	52%	51%	50%	51%	45%	48%	51%	48%
Import Bilaterals		2%	2%	2%	2%	1%	1%	1%	1%	2%	1%	1%	1%
Export Bilaterals		1%	1%	1%	1%	1%	1%	2%	1%	1%	2%	2%	0%
Wheels Through		2%	3%	1%	1%	4%	3%	3%	2%	2%	1%	3%	3%
Market Share of Total Load													
	Day Ahead Market	97.97%	97.85%	97.25%	96.18%	98.52%	98.70%	101.33%	102.12%	96.98%	98.29%	96.11%	96.22%
	Balancing Energy *	2.03%	2.15%	2.75%	3.82%	1.48%	1.30%	-1.33%	-2.12%	3.02%	1.71%	3.89%	3.78%
	Total MWH	13,979,215	12,933,930	12,616,286	11,800,570	12,940,566	13,964,207	14,199,309	15,011,759	13,321,117	12,516,751	12,635,197	14,740,664

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



### **NYISO Markets 2001 Ancillary Service Statistics**

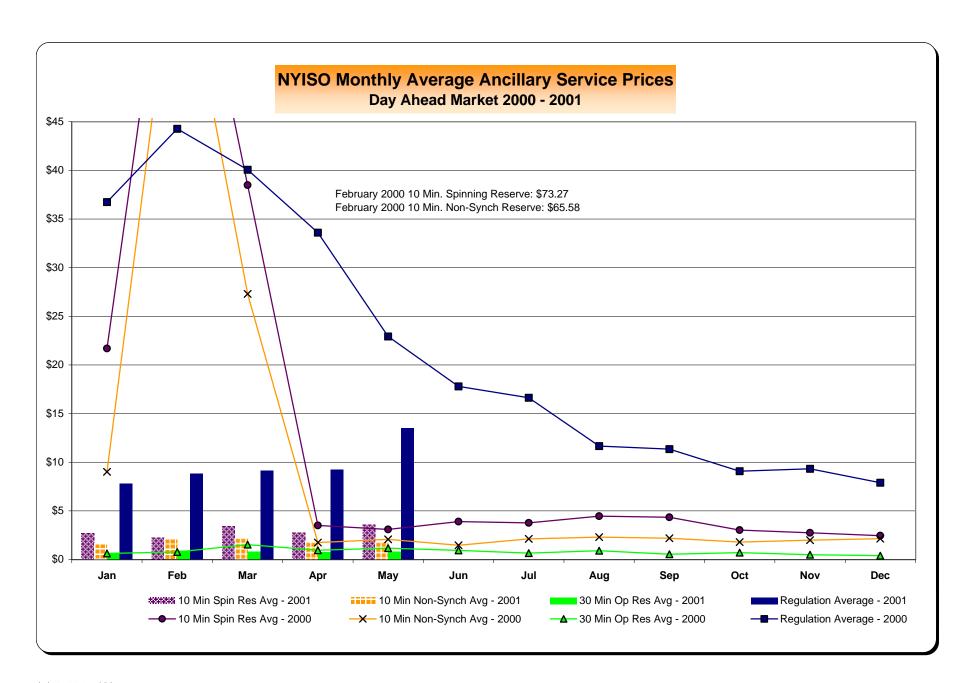
	January	February	March	April	May	June	July	August	September	October	November December
ANCILLARY SERVICES	Day Ahead M	arket									
<b>10 Min Spin</b> Unweighted Price Standard Deviation	\$2.71 \$1.67	\$2.22 \$0.56	\$3.41 \$5.48	\$2.73 \$3.79	\$3.57 \$4.92						
<b>10 Min Non Synch</b> Unweighted Price Standard Deviation	\$1.69 \$0.78	\$2.19 \$0.60	\$2.22 \$0.63	\$1.84 \$0.79	\$1.85 \$0.81						
30 Min Unweighted Price Standard Deviation Regulation	\$0.60 \$0.40	\$0.89 \$0.76	\$0.79 \$0.33	\$0.75 \$0.30	\$0.80 \$0.63						
Unweighted Price Standard Deviation	\$7.80 \$5.50	\$8.81 \$8.56	\$9.13 \$9.57	\$9.25 \$13.27	\$13.48 \$15.19						
ANCILLARY SERVICES	BME *										
<b>10 Min Spin</b> Unweighted Price Standard Deviation	\$3.19 \$3.95	\$2.85 \$4.04	\$3.95 \$7.67	\$3.74 \$6.36	\$4.37 \$6.95						
<b>10 Min Non Synch</b> Unweighted Price Standard Deviation	\$1.70 \$0.92	\$2.16 \$0.74	\$2.39 \$4.40	\$1.93 \$0.96	\$2.05 \$1.08						
<b>30 Min</b> Unweighted Price Standard Deviation	\$0.88 \$0.84	\$0.94 \$0.86	\$1.26 \$4.46	\$0.86 \$0.89	\$1.21 \$1.15						
Regulation Unweighted Price Standard Deviation	\$5.70 \$5.97	\$7.26 \$7.83	\$6.68 \$6.69	\$6.62 \$3.73	\$12.05 \$15.56						

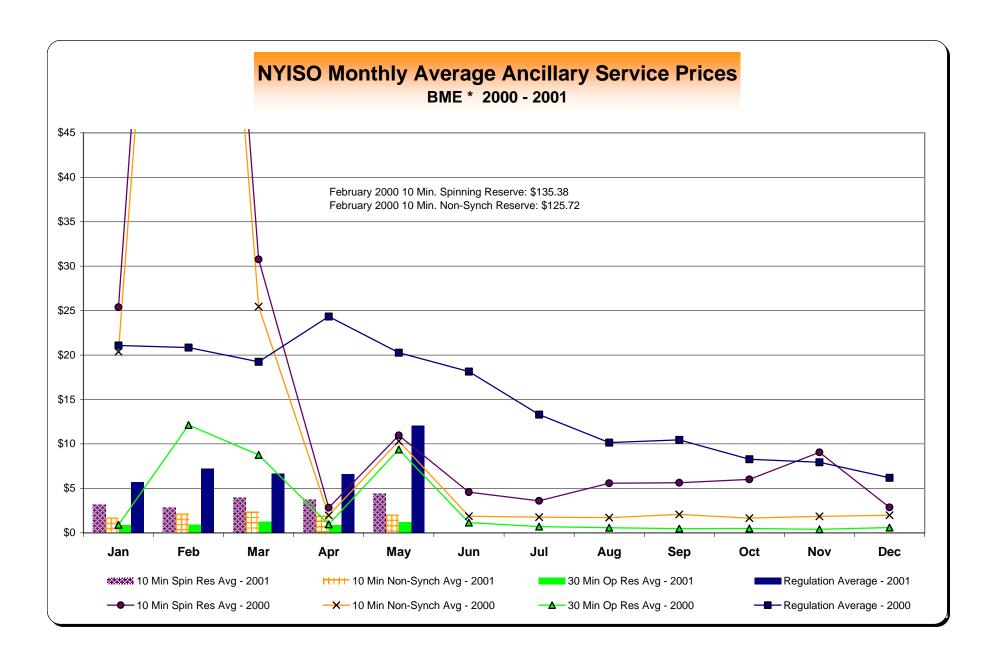
<sup>\*</sup> Commonly referred as Hour Ahead Market (HAM)

### **NYISO Markets 2000 Ancillary Services Statistics**

	January	February	March	April	May	June	July	August	September	October	November I	December
ANCILLARY SERVICES	Day Ahead M	<u>arket</u>										
<b>10 Min Spin</b> Price Standard Deviation	\$21.70	\$73.27	\$38.48	\$3.51	\$3.10	\$3.89	\$3.76	\$4.45	\$4.34	\$3.03	\$2.74	\$2.45
	\$26.67	\$32.24	\$34.05	\$5.74	\$5.31	\$4.88	\$2.61	\$5.63	\$6.50	\$4.95	\$3.81	\$0.76
<b>10 Min Non Synch</b> Price Standard Deviation	\$9.01	\$65.58	\$27.31	\$1.75	\$2.07	\$1.47	\$2.12	\$2.30	\$2.18	\$1.80	\$1.99	\$2.14
	\$0.39	\$0.22	\$6.39	\$0.45	\$5.07	\$2.52	\$1.35	\$2.02	\$0.21	\$0.62	\$0.58	\$0.57
<b>30 Min</b> Price Standard Deviation	\$0.62	\$0.77	\$1.53	\$0.95	\$1.17	\$0.93	\$0.66	\$0.91	\$0.55	\$0.70	\$0.50	\$0.39
	\$19.20	\$24.13	\$16.17	\$0.16	\$5.12	\$2.51	\$1.39	\$2.14	\$0.30	\$0.27	\$0.39	\$0.39
Regulation Price Standard Deviation	\$36.75	\$44.27	\$40.07	\$33.61	\$22.93	\$17.79	\$16.63	\$11.66	\$11.35	\$9.08	\$9.32	\$7.89
	\$42.26	\$21.99	\$23.72	\$35.08	\$11.18	\$9.52	\$9.17	\$5.13	\$10.38	\$6.96	\$7.93	\$5.73
ANCILLARY SERVICES	<u>BME *</u>											
<b>10 Min Spin</b> Price Standard Deviation	\$25.38	\$135.38	\$30.76	\$2.83	\$10.96	\$4.58	\$3.60	\$5.58	\$5.64	\$6.02	\$9.05	\$2.87
	\$37.34	\$798.48	\$31.12	\$6.32	\$27.38	\$6.74	\$5.68	\$8.40	\$8.54	\$9.66	\$12.05	\$3.37
<b>10 Min Non Synch</b> Price Standard Deviation	\$20.37	\$125.72	\$25.45	\$1.97	\$10.31	\$1.87	\$1.77	\$1.71	\$2.07	\$1.66	\$1.86	\$1.98
	\$33.81	\$799.03	\$23.67	\$4.51	\$27.41	\$3.77	\$3.77	\$1.74	\$0.51	\$0.90	\$0.78	\$1.07
30 Min Price Standard Deviation	\$0.90	\$12.13	\$8.77	\$0.96	\$9.37	\$1.16	\$0.71	\$0.58	\$0.46	\$0.49	\$0.39	\$0.60
	\$2.35	\$26.61	\$23.48	\$4.55	\$27.70	\$3.84	\$3.79	\$1.67	\$0.59	\$0.60	\$0.63	\$1.01
Regulation Price Standard Deviation	\$21.07	\$20.84	\$19.25	\$24.34	\$20.26	\$18.15	\$13.31	\$10.16	\$10.46	\$8.28	\$7.94	\$6.19
	\$26.50	\$19.49	\$19.55	\$33.72	\$11.44	\$39.80	\$9.66	\$8.06	\$11.39	\$8.82	\$8.50	\$5.90

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



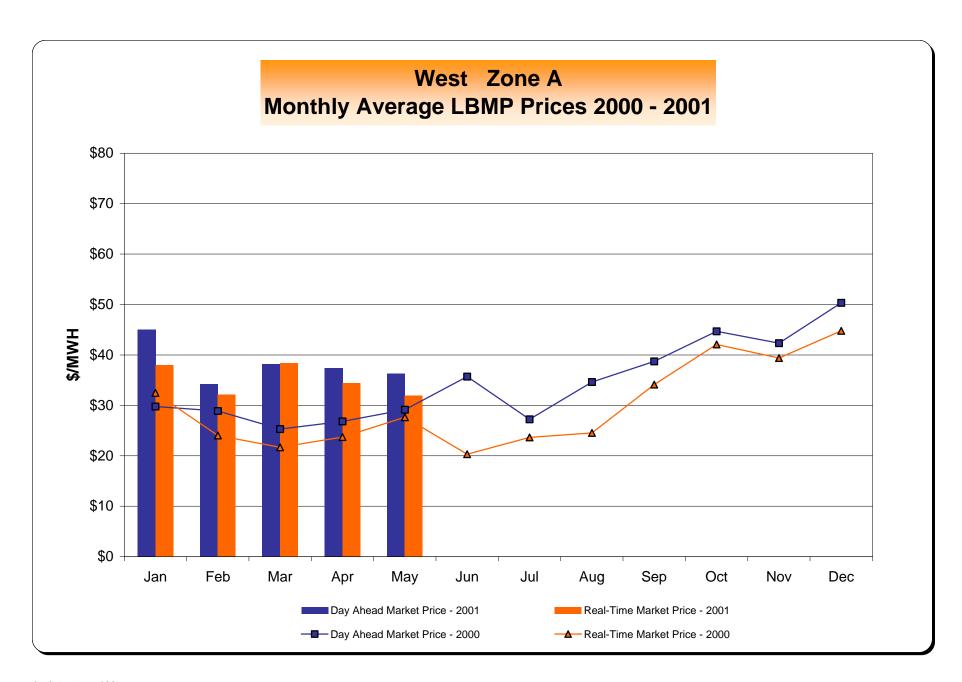


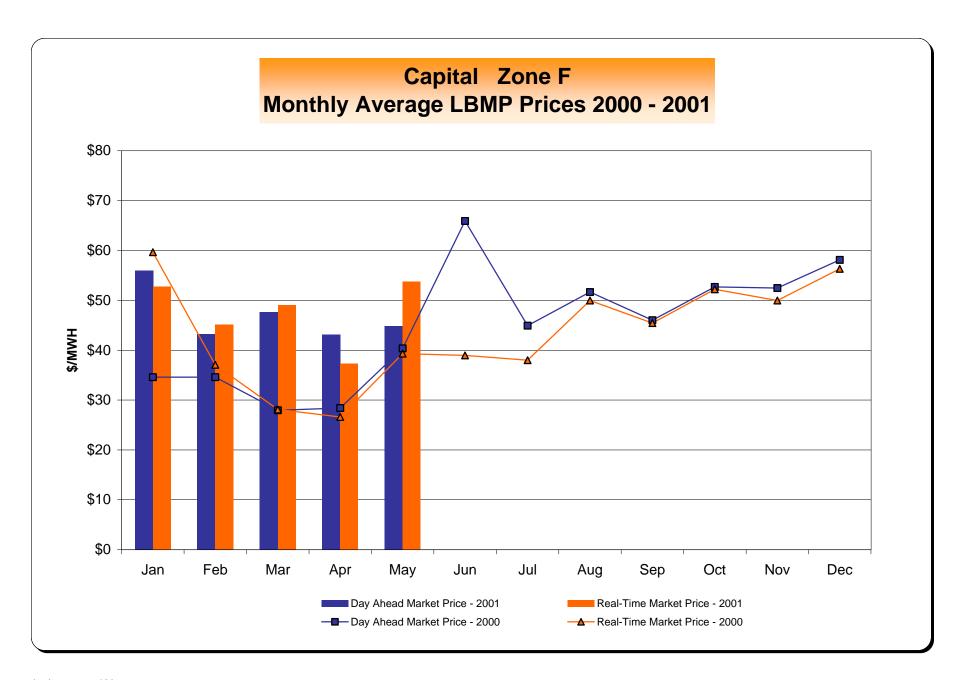
<sup>\*</sup> Commonly referred as Hour Ahead Market (HAM)

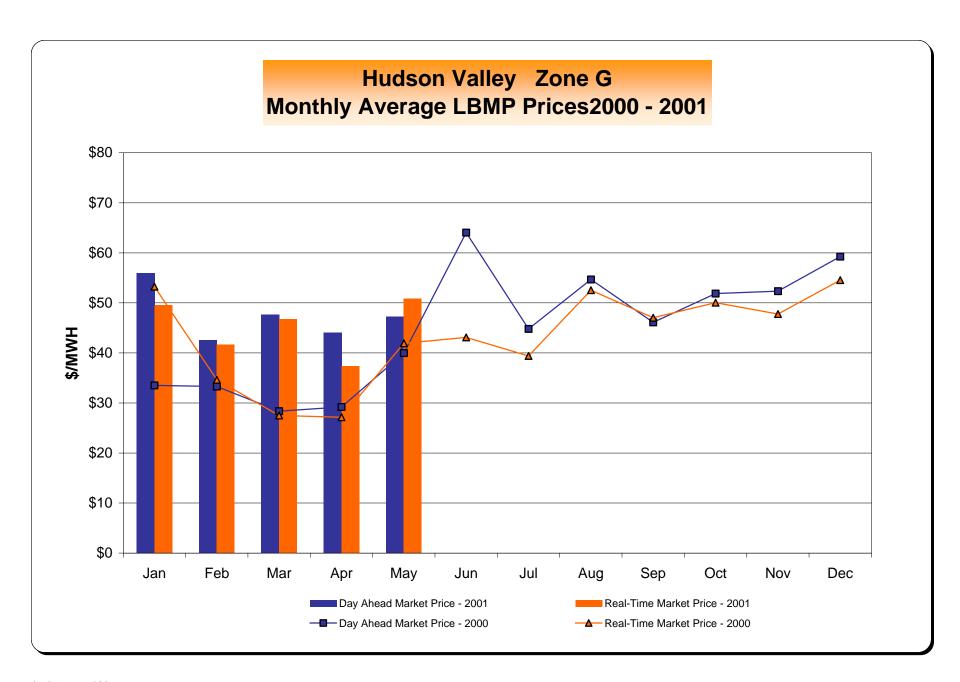
#### May, 2001 Zonal Statistics for NYISO

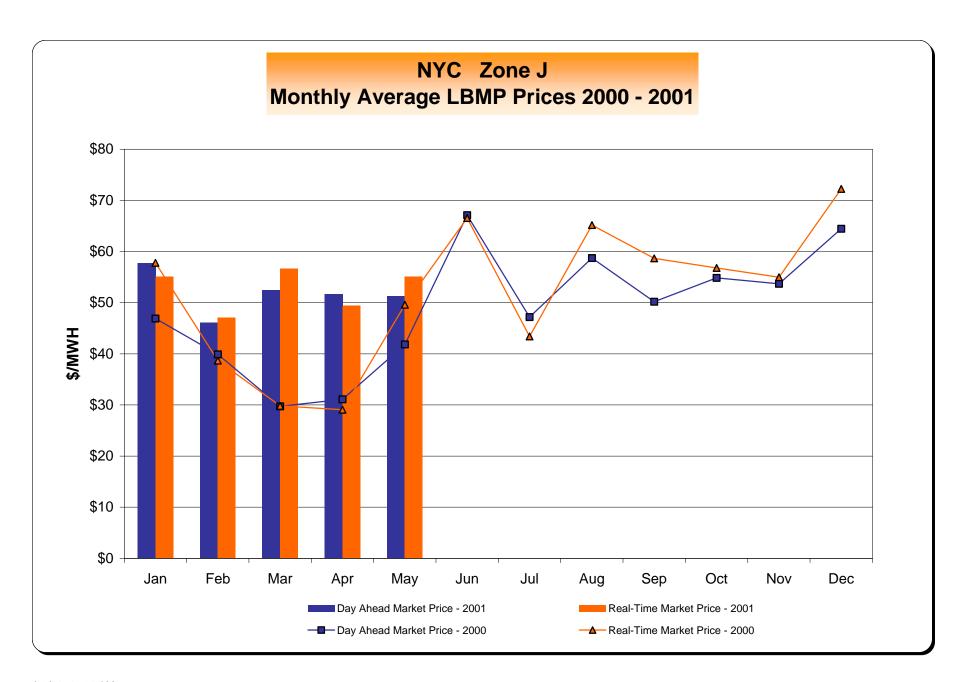
	WEST Zone A	CENTRAL Zone C	MOHAWK VALLEY Zone E	CAPITAL Zone F	HUDSON VALLEY Zone G	GENESEE Zone B	LONG ISLAND Zone K	NORTH Zone D	NEW YORK CITY Zone J	MILLWOOD Zone H	DUNWOODIE Zone I
DAY AHEAD LBMP	<b>*</b>	400 57	<b>*</b> 40 4 <b>-</b>	0440=	<b>4.</b> 7.00	007.40	<b>A</b> =0.0=		<b>\$</b> =4.0=	<b>0.17.10</b>	<b>0.40.05</b>
Unweighted Price	\$36.27	\$39.57	\$40.17	\$44.85	\$47.26	\$37.10	\$53.97	\$38.81	\$51.27	\$47.18	\$48.85
Standard Deviation	\$37.34	\$11.59	\$11.46	\$13.13	\$17.11	\$10.89	\$20.58	\$10.48	\$20.01	\$18.61	\$19.27
BME * LBMP											
Unweighted Price	\$143.03	\$154.54	\$154.78	\$193.49	\$195.61	\$146.58	\$254.91	\$148.02	\$227.26	\$200.37	\$204.61
Standard Deviation	\$2,442.14	\$2,613.93	\$2,599.74	\$3,403.26	\$3,343.00	\$2,496.06	\$3,490.23	\$2,481.05	\$3,497.69	\$3,368.62	\$3,406.26
REAL TIME LBMP											
Unweighted Price	\$28.99	\$31.87	\$31.07	\$53.78	\$50.81	\$31.39	\$66.68	\$29.54	\$55.09	\$53.58	\$54.21
Standard Deviation	\$22.11	\$25.43	\$27.96	\$86.71	\$64.76	\$25.51	\$75.53	\$28.49	\$75.42	\$74.22	\$75.40

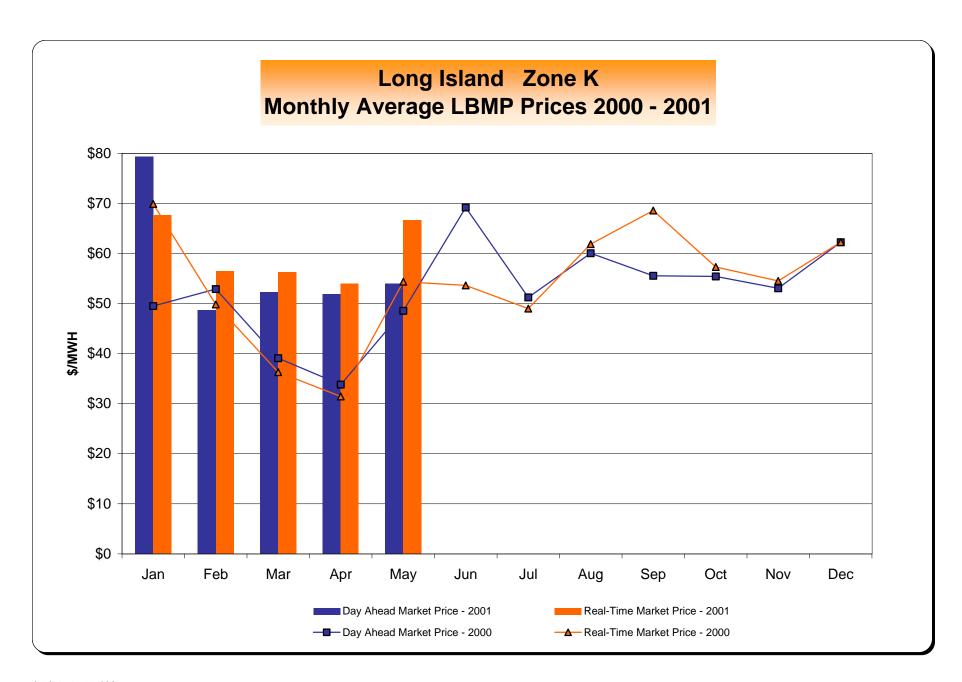
	HYDRO	NEW	ONTARIO	
	QUEBEC	ENGLAND	HYDRO	PJM
	Zone M	Zone N	Zone O	Zone P
DAY AHEAD LBMP				
Unweighted Price	\$39.11	\$47.26	\$35.68	\$36.30
Standard Deviation	\$10.76	\$16.17	\$10.38	\$13.58
BME * LBMP				
Unweighted Price	\$117.22	\$189.97	(\$53.35)	\$83.14
Standard Deviation	\$1,266.57	\$2,071.27	\$1,894.34	\$1,036.08
REAL TIME LBMP				
Unweighted Price	\$31.97	\$55.43	\$29.50	\$30.72
Standard Deviation	\$27.37	\$84.58	\$21.66	\$22.73

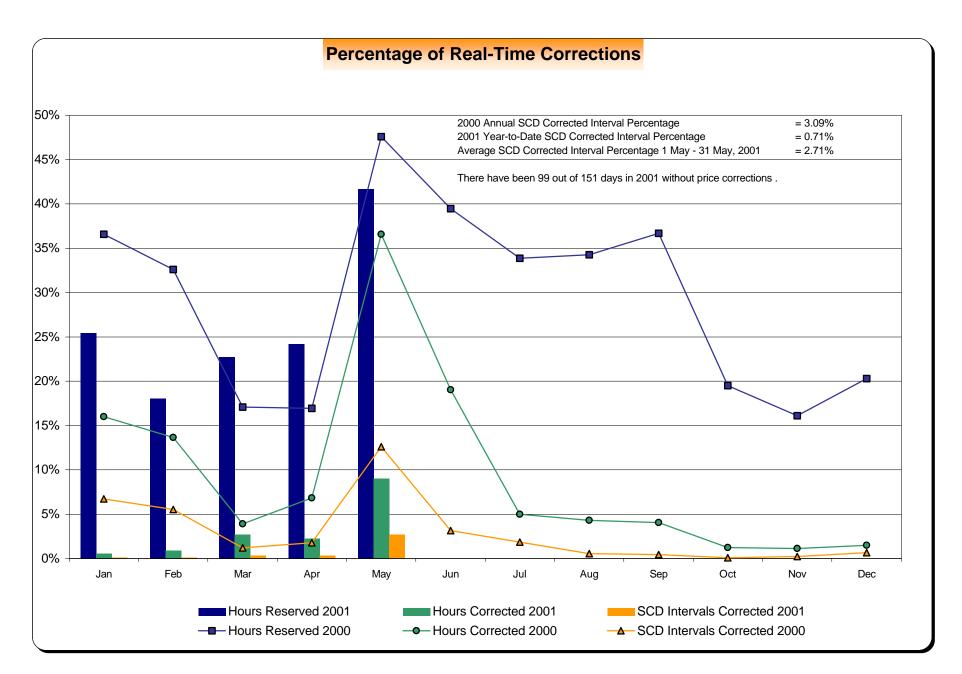


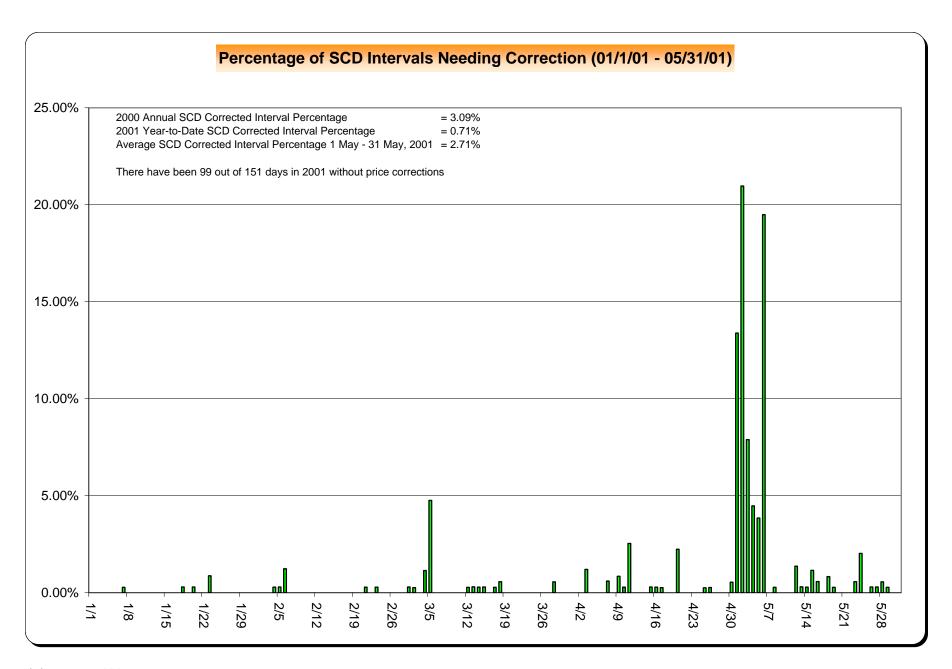




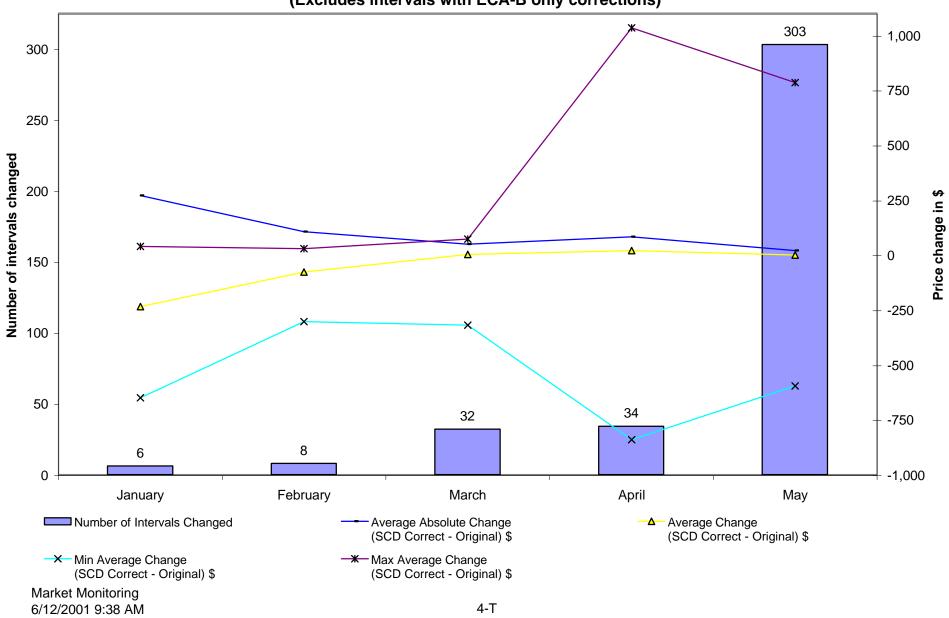




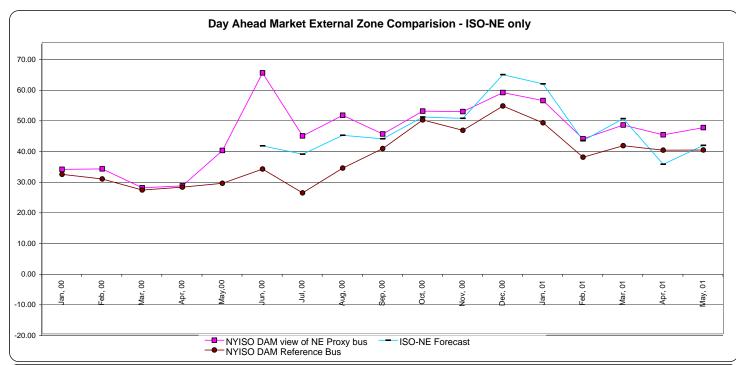


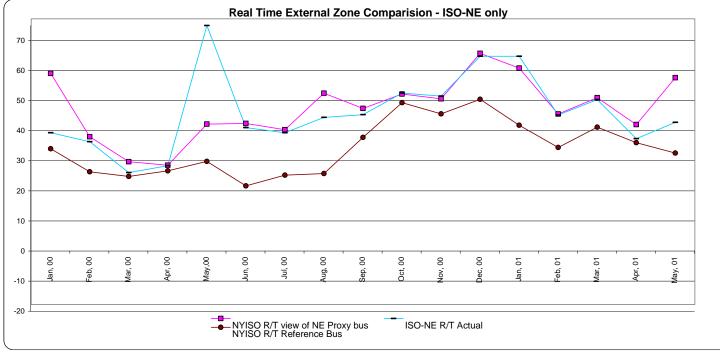


## SCD Price Corrections 2001 - Magnitude and Count (Excludes intervals with ECA-B only corrections)



### **External Comparision ISO-NE**

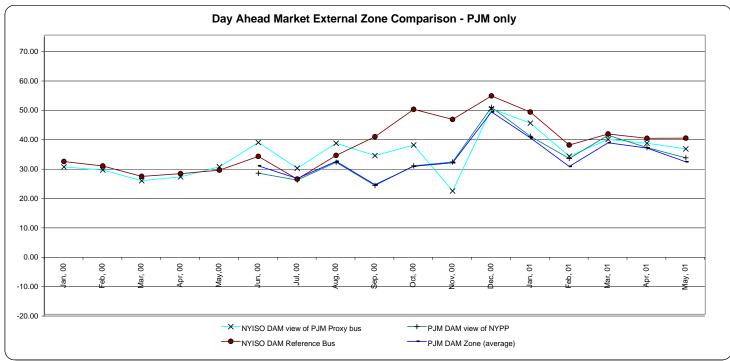


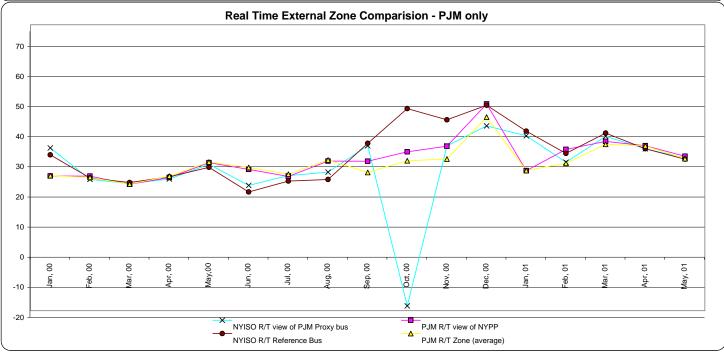


Note:

PJM DAM began 6/1/00 After 4/1/01 PJM will consolidate NYPP-E and NYPP-W interfaces ISO-NE Forecast posting began 6/1/2000 ISO-NE Forecast is an advisiory posting @ 18:00 day before

### **External Comparision PJM**

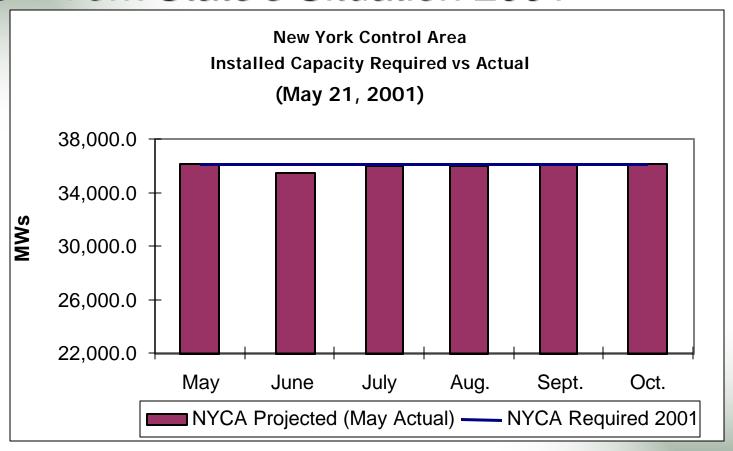




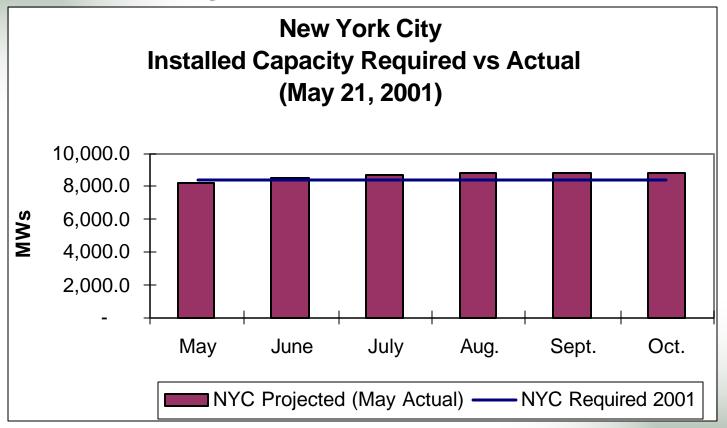
Note:

PJM DAM began 6/1/00 After 4/1/01 PJM will consolidate NYPP-E and NYPP-W interfaces ISO-NE Forecast posting began 6/1/2000 ISO-NE Forecast is an advisiory posting @ 18:00 day before

## New York State's Situation 2001



## New York City's Situation 2001



## **MOU Status**

Joint NY/NE Tech Bulletin titled "Selling Energy from New England to New York" was posted to the NYISO website on 6/14/01 for 5 day comment period.

Next MOU BP Working Group Stakeholders meeting is scheduled for July 9<sup>th</sup> in NYC. MOU revitalization process and tracking of MOU initiatives, including CSS, are key agenda items.