



Monthly Report

July 2004

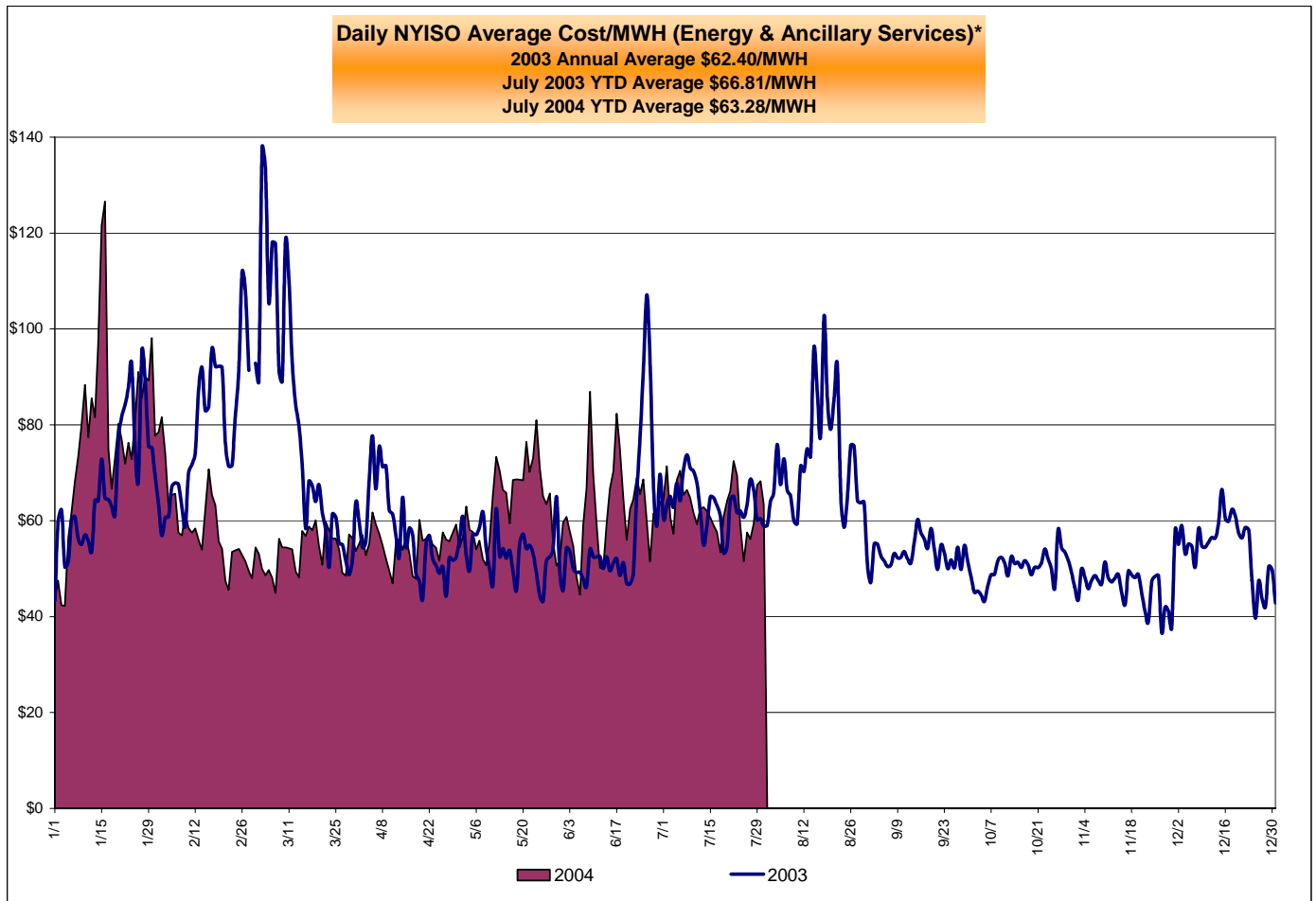
Rob Fernandez

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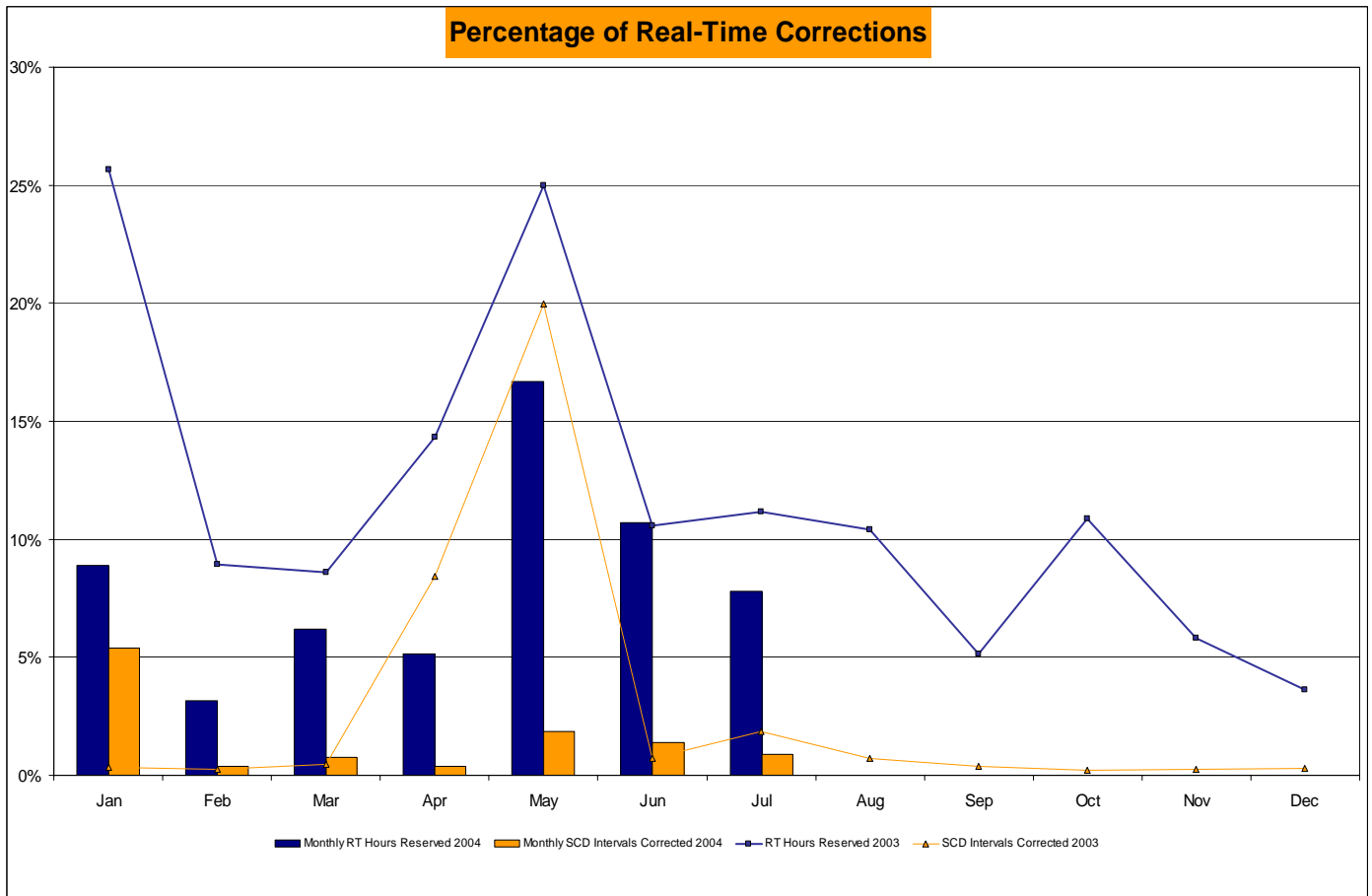
1. Executive Summary

The monthly average cost for energy declined slightly again in July, even though loads again were higher.

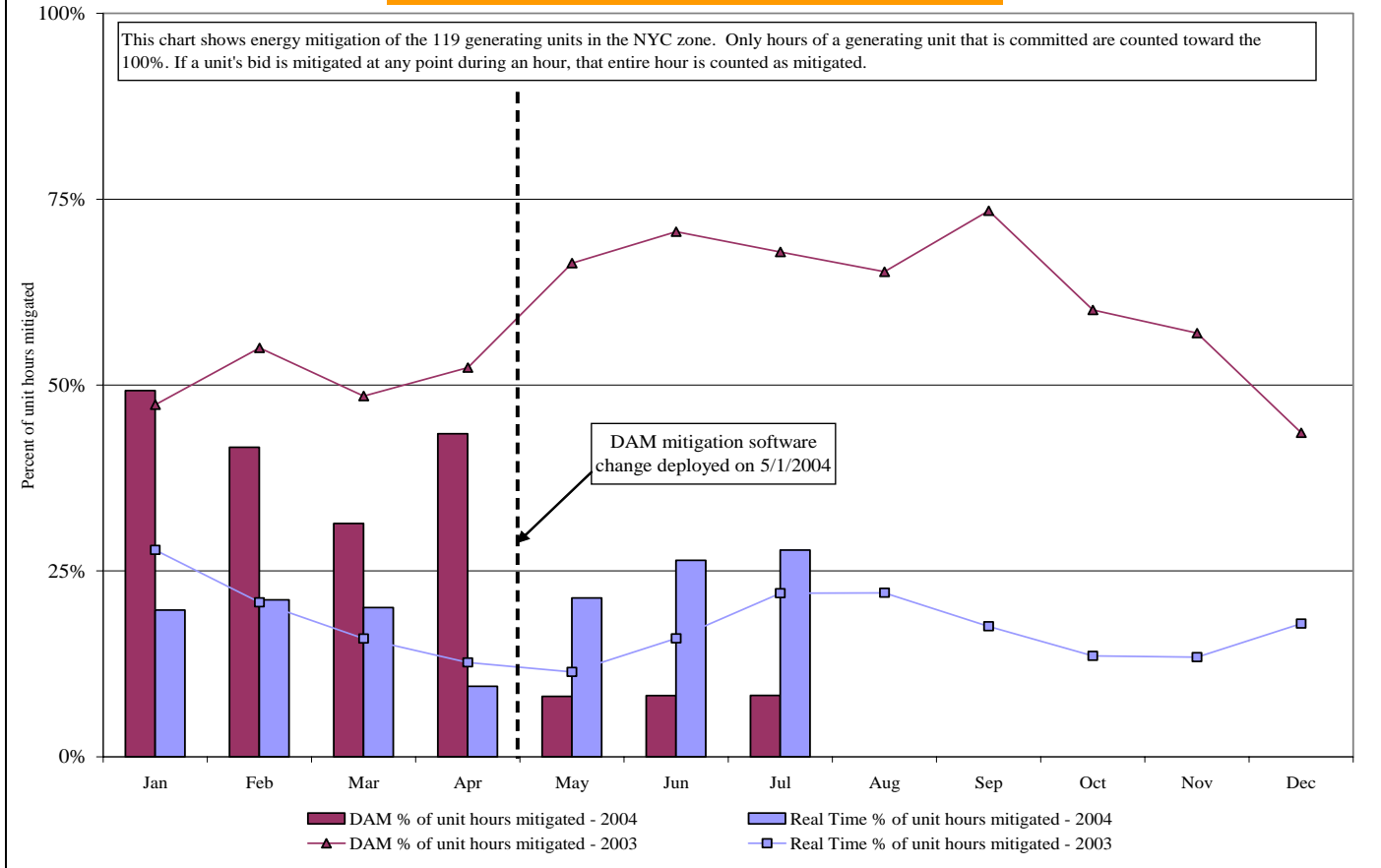


Monthly average reserve prices for 10-minute Spin, 10-minute Non-spin, and 30-Minute Reserves declined to historic lows for July. The declines are attributable to low loads for this time of year and high generator availability.

The percentage of DAM-committed-unit hours mitigated in NYC continued at essentially the same low rate as last month. The percentage of SCD intervals corrected and real-time hours reserved is less than for July 2003.



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



On July 22, FERC approved the TCC settlement and directed the NYISO to file a compliance filing regarding implementation of the shortfall reimbursement charge within 15 days. Initial implementation activities were completed by July 30, as scheduled. In accordance with the settlement agreement, Net Excess Auction Revenues and NYISO working capital were used to pay TCC Holders and to make payments to the TOs for remaining Congestion Rent Shortfalls, with less than \$550,000 of working capital being drawn down. The third-party data base reviews are complete and the calculations for the Historic Remedy are in progress.

The August Reconfiguration Auction was conducted on July 26.

Also in July, FERC issued an order denying a third-party complaint against the NYISO regarding the calculation of in-city installed capacity rebates. A FERC ALJ order certified the uncontested settlement, consisting of a financial settlement and a settlement agreement, regarding the cost allocation for new interconnection facilities.

The SMD2 project team conducted two Market Trial exercises during the month of July including the first real-time market simulation, which was significantly more complex than the previous exercises. The tests were largely successful and problems that were identified during the tests are being addressed.

2. System Operations

Management Summary

Peak load for the month was 27,779 MW on Thursday July 22. One Major Emergency occurred on July 7, at 01:19 due to the L33P St. Lawrence-Moses 230 KV line exceeding its LTE rating. The Major Emergency was terminated at 01:21. Alert states were declared on 13 occasions, with nine attributable to system frequency excursions. There were 14 occasions when reserve energy was activated during July with 4 activations due to large control area errors and two due to activation of shared reserves. CPS1 was 169%; CPS2 was 96.5%. There was one reportable event. On July 29, 2004 at 13:50, Bowline tripped for a loss of 528 MW. Shared Activation of reserve was not initiated and the NYCA crossed zero at 13:55 in full compliance.

The Operator simulator (ISS) system is being finalized and readied for operator training. The new model that has been developed by Market Operations is in use and close work with ABB (their personnel on site) should keep this process moving. Formal ABB training of the BMS functionality has been completed. The training department is now using the spreadsheet that was developed to show existing tasks and comparing those to Ranger functions. The operators prefer to utilize this as a start of their training. Once the operator simulator (ISS) is completely ready we can go full steam with the operators. The absence of SMD2 State Estimation and Contingency Analysis in the training environment continues to be a hindrance to the delivery of adequate system operator training. It is anticipated that these software application and data issues can be resolved to the next In-House training cycle which begins in August.

Staff provided continuing support to the ongoing NERC and NPCC investigation process and the MEN Benchmark analysis. NERC issued a detailed technical report of the event on July 13. Some of the individual investigation teams are still working on reports that will provide additional detailed analysis of several aspects of the event. Staff completed revisions to the sequence of events discussion section of the NYISO final report, and a revised SOE table for the report appendix. Staff has also requested that facility owners' protection departments provide copies of their responses to NYS PSC data requests concerning their actions in response to NERC Board of Trustees Recommendation #8a (remediation of Zone 3 protections). Based on a request from the NYISO Operating Committee regarding NYISO Operating Limits Studies, Staff has developed a summary page with limiting conditions and hotlinks to the report containing the respective limits. The test version was placed on the NYISO website and demonstrated to the SOAS at their July meeting. The NYISO Operating Committee at their July meeting approved the Fault Current Assessment Report. Staff continues to work with facility owners in reviewing the mitigation plans for the identified over-duty breakers. The NYISO Operating Committee at their July meeting approved the Voltage Assessments for Athens. Staff is working with Market Operations to incorporate the revised limits into SCD and review the line outage penalties for consistency. Staff performed additional analysis for the Operations Reactive study. As a result of discussions at the June SOAS meeting, it was agreed that analysis on the cases would apply the ISO-NE OP-17 method. Staff has modified the base cases to establish boundary buses at the change of ownership points on inter-company and inter-zonal boundaries to allow charging/loss ownership to be tabulated correctly. To resolve continuing problems with the transmittal of the large case data files via e-mail, Staff established a secure file transfer site within the NYISO MDEX website to allow designated working group members (OSTF and LPF working group) to download the power flow cases. NOAA/SEC reported one Kp=8, three Kp=7, and four Kp=5 events during the month; there were no actual observations of Kp=5 or greater during the period. During the month, four events resulted in excursions of more than 30 MHz or a loss of greater than 1,000 MW.

Market Operations and Power System Operations continue testing the SMD2 hardware platform for implementation of the ISO state estimator function and other operational tools. Several RANGER-in-a-Box systems are also being used for Market Operations use in testing of the BMS functionality. There have been many problems with access to the hardware, but they seem to be resolved. The access issues have hampered any significant amount of testing from being completed. Market Operations staff continues work on the SMD2 Common Information Model network data and the database load process on the RANGER system. A weekly meeting to discuss and prioritize SMD2 network modeling data work has been established with representatives from Market Operations, Power System Operations, Dispatcher Training, and Information Services. Staff conducted the third session of the SMD2 Day Ahead Market Trials. This was the first session that was completed in a single day time window. While the test proceeded along, several small issues were identified.

In July, Scheduling staff processed 293 requests for generating unit DMNC testing and unit maintenance outages, confirmed 2,500 external control area transactions in the Day-Ahead Market checkout, and scheduled 593 NYS transmission facility maintenance outages.

The following table shows the number of reserve activations and the number that did not result in crossing zero, and the number of alert states in the current and past two years.

	2002			2003			2004		
	No. of Reserve Activations	No. of Alert States	Non-Zero Crossing	No. of Reserve Activations	No. of Alert States	Non-Zero Crossing	No. of Reserve Activations	No. of Alert States	Non-Zero Crossing
January	5	9	0	30	24	10	36	21	6
February	20	24	3	23	21	5	15	7	3
March	24	31	6	24	10	7	25	24	2
April	25	25	9	16	24	2	17	9	1
May	11	19	2	10	13	2	29	15	4
June	13	14	3	15	12	2	24	8	5
July	66	33	41	12	18	1	14	13	1
August	25	10	12	24	22	4			
September	23	20	9	12	6	0			
October	28	24	11	25	21	3			
November	25	26	4	17	12	3			
December	32	27	8	40	16	4			
Totals	297	262	108	248	199	43	160	97	22

Attachments

Attachment 2-A, NERC Control Performance Standard

3. Market Services

Management Summary

Customer Relations:

During the month of July, one customer left our market, and four new customers were added, making the total number of NYISO Customers 232.

As part of our effort to support our Customers, the NYISO is tracking responsiveness to inquiries. For 2004, the Customer Relations goal has been set at 95%. For July, the Customer Resolution Survey was sent out with 81 answers to Customers' inquiries, no responses were received. Therefore, a 100% rate was achieved for the month. (See Attachment 3-A.)

Another of Customer Relations goals is to trend the backlog of open inquiries. Attachment 3-B is a graph of open and closed tracking tickets, Attachment 3-C shows the length of time that tickets have been open, and Attachment 3-D shows the number of days that inquiries have been open as of the end of July.

During the month, Customer Relations continued meeting with Customer organizations as part of efforts to learn more about our Customers' businesses and their objectives for interactions with the NYISO. Eight Customer visits took place in July.

Customer Technical Services:

◆ Market Services – Communications to Market Participants:

This month's significant communications to Market Participants included announcements of the second and third SMD2 market trial exercises; communications related to infeasible TCC market issues; the distribution of the July issue of the NYISO Insider; the release of the Decision Support System's (DSS) Alternate Data Delivery (ADD) interface and training courses supporting the new interface; SMD2 transition courses; revised Technical Bulletins 27 and 127.

The following Technical Bulletins were revised and distributed to Market Participants: 27, supporting new functionality added to the E-Tag system and 127, describing automated processes for accessing the DSS ADD.

◆ Committee and Working Group Participation:

CTS staff participated in the Issue Management Committee (IMC), the Issue Resolution Team (IRT), and the Committee Coordination Team (CCT).

CTS represented Market Services at a meeting of the Compliance Task Force.

CTS participated in the Market Structures Working Group and the Scheduling & Pricing Working Group, and the Generator Issues Task Force.

CTS took minutes at the July BIC.

◆ Technical Documentation and the Guide to Market Rules:

CTS drafted new Technical Bulletins on SREs and external transaction settlement rules.

CTS continued work on the ICAP Market Automation User's Guide.

CTS continued work on version 2.0 of the DSS User's Guide.

CTS participated in knowledge transfer sessions with NYISO's Documentum vendors and assisted IT in configuring the software.

◆ Surveys and Business Intelligence:

CTS met with NYISO Operations and ISO-NE concerning Virtual Region Dispatch (VRD) and contributed towards a white paper about VRD.

CTS completed and issued two separate web traffic reports – a weekly analysis posted on our intranet site, and a monthly, in-depth analysis.

CTS staff continued to work with the web team to develop prototype graphic displays of real-time information.

CTS Market Services' second quarter 2004 Strategic Objectives were posted on its newly created intranet site.

CTS staff completed reporting a WelcomHome survey for Project Management.

CTS issued the Measuring Customer Satisfaction survey, tabulated the results, and notified the Audit team.

CTS continued work with Opinion Dynamics to develop the fall survey statement of work and conducted in-house focus groups in support of the survey.

CTS completed 12 Key Stakeholder Survey interviews and drafted a report.

CTS staff engaged Energy Insights to conduct an analysis of NYISO customer service processes.

Research and Development Activities:

CTS completed its R&D intranet site and released the site for internal review.

Product Development

◆ Market Issues:

PD staff (Kranz) participated in a meeting and supported data input to the GE consultant team that is performing the wind study.

PD staff (Kranz, Lawrence) updated the monthly seams reports for the BIC, MC and the Board and posted the quarterly report to FERC.

PD staff (Kranz) presented an overview of NYISO markets at EEI's Transmission Pricing & Market Design School in Madison, WI.

◆ Demand Response Programs:

PD Staff (Breidenbaugh) Administered Meeting to Discuss Regional Greenhouse Gas Modeling Assumptions

PD Staff (Breidenbaugh) participated in Conference Call with FERC Staff to Discuss Upcoming DADRP Filing

PD Staff (Breidenbaugh/Charlton) assisted Summer Intern in integrating EDRP and SCR Access Database into current process

◆ SMD2:

PD staff (Lemme) ran two SMD2 market exercises in July (one DAM only and one DAM/24-hour RT). Both exercises were followed by an exercise review session with Market Participants.

PD staff (Lemme) provided FERC, CDAS, SOAS, and BAWG with SMD2 status and market trials updates.

PD staff (Lemme) is working on a summary of SMD2 testing efforts. The summary will address Factory Acceptance Testing, Integration Testing, Functional Testing, and the Market Trials.

- ◆ Resource Adequacy/ICAP

PD staff (Charlton) amended the Levitan & Associates statement of work for the Demand Curve study to cover three (3) additional tasks: i) address technologies and bidding issues, ii) added a stochastic treatment of forecast Load, and iii) update inputs and additional final report detail. The amended statement of work and Purchase Order were approved, bringing the total contract to \$260,000. A timeline for the study was developed that anticipates Board approval in October or November and a FERC decision early in 2005. A Draft Final Report was received from Levitan and posted on July 26 for discussion at the August 2 Installed Capacity WG meeting.

PD staff (Charlton/Breidenbaugh) July SCR audits were conducted in two blocks on July 28 and 29 (Zones F-K, and A-E, respectively).

PD staff (Charlton) attended PJM-RAM Stakeholders W.G. meeting on July 16. PJM began the rollout of its new Reliability Pricing Model for Resource Adequacy. It includes locational aspects, a form of a Demand Curve, and a future 1-year Procurement Period and Planning Horizon. There were no developments in the New England LICAP proceeding to report.

Resource Adequacy

- ◆ Resource Reliability:

Staff completed the August 2004 monthly ICAP and Spot Market Auctions. An additional iteration of construction was added to the UCAP Automation project to correct necessary defects and complete the coding of the upload/download templates. Staff is loading data into the application to perform user acceptance tests.

- ◆ Transmission Congestion Contracts:

A July 2004 Solicitation of Offers was completed to buy-back TCC's in order to correct the sale of excess system capacity in previous Capability Period auctions. Staff completed the August Reconfiguration Auction. FERC approved the TCC Issue Settlement to resolve the sale of excess system capacity situation for the summer 2004 Capability Period and the historical period back to the autumn 2002 auction. Bearing Point completed their review of the BAS and TCC records databases. Minor revisions were identified. A self-verification of the BAS TCC information by Market Participants was completed.

Look Ahead

Customer Technical Services:

CTS will release new Technical Bulletins regarding Local Reliability Rules, external transaction settlement rules and SREs. CTS will begin posting revised Technical Bulletins for RTS.

CTS will continue to provide documentation for the UCAP Automation project.

CTS will continue work on version 2.0 of the DSS User's Guide.

CTS will continue drafting the VRD Pilot white paper.

CTS will take minutes at the July BIC and attend the CCT, IMC, and IRT.

CTS will complete the Key Stakeholder Survey and issue a report.

CTS will continue fall 2004 survey preparations and meetings.

Product Development:

- Run the final two SMD2 Market Exercises as scheduled.
- ICAP WG to continue to discuss the demand curve parameters in August.
- Expect August issuance of a PSC Order in the Renewable Portfolio Standard (RPS) proceeding.

Resource Adequacy:

◆ Resource Reliability:

Complete the regular monthly ICAP auctions for September, including the Spot Market Auction. Work with the UCAP Automation project vendor and NYISO Quality Assurance Department to test the UCAP automation application. Work with Bearing Point to perform an ICAP market process flow controls check.

◆ Transmission Congestion Contracts:

Complete the September Reconfiguration auction. Perform the analyses required to adjust the Transmission Owner historical TCC auction revenues and DAM congestion shortfall calculations related to the sale of excess system capacity. Complete the data preparation work for the autumn 2004 TCC Auction to commence September 2. Implement the TCC process flow controls recommended by Bearing Point in their report regarding the validation of the BAS and TCC databases. Work with Bearing Point to perform a TCC market process flow controls check.

Attachments

- Attachment 3-A, Customer Resolution Survey
- Attachment 3-B, Tickets Open, Tickets Closed as of End of July 2004
- Attachment 3-C, Open Tickets by Month 2004
- Attachment 3-D, Number of Tickets Open by Days July 2004

4. Corporate and Market Risk Management

Management Summary

Risk Assessment:

The Enterprise Risk Management (ERM) department continued to provide reports to the CEO and Board Audit and Compliance Committee. Staff continued the process of monthly risk assessment reports and prepared accompanying recommendations. The internal risk committee met in July to review the progress of the program, assess risk exposure, and measure the effectiveness of mitigation efforts. The annual risk assessment interview process began in July. Applications for insurance renewals were submitted in July for several policies.

Industry Affairs

- NAESB Seams Issues:

NAESB has repositioned its Seams Subcommittee to focus on standards development activity. The Subcommittee has identified three high priority areas that they feel are appropriate for NAESB business practice standards development. The high priority groupings are: Transmission Services, Transaction Scheduling, and Market Standards. NAESB's Seams Subcommittee scheduled a meeting in August to review formal requests for standards for interchange scheduling, standardized protocols, and energy and transmission market product definitions. Some initial proposals for firm and non-firm energy are included. The goal is to have the requests reviewed by the NAESB Triage Committee, the NAESB WEQ EC, and the JIC so that the Subcommittee can begin drafting standards by the end of 2004.

- Future Role of the Regional Reliability Councils:

The Regional Managers Committee is seeking industry input regarding their views on the future role of the Regional Reliability Councils. The NERC Regional Managers Committee was charged with examining the future role and responsibilities of regional reliability councils and coordinating an assessment of their regional boundaries. This effort also relates to recommendation #3 in the US-Canada Final Report on the 2003 Blackout, which addresses strengthening the institutional framework for reliability management in North America. The NYISO is participating with the ISO/RTO Council members in developing and submitting joint ISO/RTO comments.

- NERC Standards Development and Review:

NERC posted the first draft of its Version 0 standards for industry comments on July 9. In the first round of comments, NERC is seeking inputs on the accuracy of the translation from existing NERC operating policies, planning standards and compliance templates. Comments are also requested on several key issues, including; assigning existing Reliability Coordinator requirements to the Reliability Authority function; Identification of potential "Version 0" business practice standards for assignment to the North American Energy Standards Board; Whether or not certain measures from the Phase III and Phase IV planning standards have been sufficiently field tested and implemented by industry to be included as current practice in Version 0.

NERC's goal is to complete the "Version 0" baseline set of integrated reliability standards by February 2005. NYISO staff reviewed the first draft Version 0 and is preparing comments in conjunction with NPCC and the ISO/RTO Council's Standards Review Committee

NYISO coordinated consensus positions and comments with the ISO/RTO and NPCC groups on a proposed revision to the NERC Reliability Standards Process Manual. This revision will allow the Standards Authorization Committee ("SAC") to recommend modifications to the administrative procedures of the manual for Board approval. Certain identified "fundamental tenets" could be modified only with approval of the Registered Ballot Body. NERC plans to place this proposed manual revision on a ballot in August 2004.

Internal Audit:

During July, an audit report was issued for:

- Voltage Support – account accuracy

A Project Process Scorecard was issued for:

- SMD2.0 (Standard Market Design) – Project Process (continuing review)

Draft reports and/or report reviews were in progress for:

- IT – External Penetration
- IT - Internal Penetration
- MIS Application Security

Fieldwork and/or planning were in process for reviews of:

- Cash Management
- Code of Conduct
- Enterprise Risk Management
- ICAP Commitment and Monitoring
- Issues Management
- KPMG Billing Issues Recommendations
- Monthly Billing
- NY State Reliability Council
- Price Validation
- Reliability Cost Allocation – account accuracy
- Web-Based Reconciliation – stress testing – focused review

The January through November 2004 SAS 70 Type 2 audit scope period is underway, all subject to review by KPMG, the SAS 70 external auditors.

IA time was spent supporting the TCC validation effort.

Monitoring of Year 2004 Corporate Incentive Goals continued during July.

Market Monitoring:

- Market Review for July 2004:

Prices in the Day-Ahead Market (DAM) and Real-Time (RT) Market increased slightly this month relative to last month, due largely to higher loads. Reserves prices reached their lowest monthly average price since the NYISO's inception. Uplift increased slightly for the month.

Prices:

The July 2004 Average Monthly MWh cost was \$63.21/MWh, down slightly from \$63.75/MWh last month. The Year-to-Date (YTD) Average Cost of \$63.28/MWh in July 2004 is lower than the July 2003 YTD price of \$66.81 (Attachment 4, Table 4-B).

LBMPs in the NYCA increased in all markets from June 2004 to July 2004. DAM and RT prices are slightly lower compared to July 2003, while HAM prices increased in the same period. The load weighted average DAM price dropped from \$58.29/MWh in June 2004 to \$57.32/MWh in July 2004, a decrease of 1.7%. The load-weighted RT price decreased from \$58.01/MWh in June 2004 to \$57.44/MWh in July 2004, a decrease of 1.0%. (Table 4.1 below and Attachment 4, Table 4-E).

Table 4.1 Monthly Price Summary

	July 2004		
	DAM LBMP	HAM LBMP	RT LBMP
Price	\$55.33/MWh	\$60.43/MWh	\$55.08/MWh
Standard Deviation	\$12.68/MWh	\$20.60/MWh	\$17.07/MWh
Load-weighted Price	\$57.32/MWh	\$62.81/MWh	\$57.44/MWh
Percent change over June 2004	- 1.7%	- 0.6%	- 1.0%
Percent change over July 2003	- 2.7%	+1.4%	- 0.6%

Uplift increased this month from \$42,166,997 in June 2004 to \$42,235,986 in July 2004. Although many of the categories have changed from last month, the largest changes over the month include Residuals DAM and Residuals Balancing (Attachment 4, Chart 4-C).

Transactions:

Most energy transactions were either bilaterals (43% this month, down from 44% last month) or LBMP purchases (55% this month, up from 54% last month). The percentage of DAM transactions increased from 97.0% in June 2004 to 99.1% in July 2004 (Attachment 4, Table 4-D).

Sendout:

The July 2004 sendout was 14,910 GWh. The July 2004 daily average sendout of 481 GWh/day was higher than the June 2004 daily average sendout of 451 GWh/day (Table 4.2 below). July 2003 had an average daily sendout of 497 GWh (Attachment 4, Table 4-D).

Table 4.2 Monthly Summary Comparisons

	July 2004	June 2004	May 2004	April 2004	March 2004
Monthly Peak (Hourly Load): MW	27,779	28,433	24,061	20,370	22,140
Average Daily Sendout: GWh	481	451	408	393	416
Percent change over the previous year	-3.2%	+4.4%	+6.8%	0%	-0.5%
Monthly Sendout: GWh	14,910	13,535	12,649	11,796	12,910

Fuel Costs:

Fuel prices were mixed for the month, with both No. 6 Fuel Oil and Natural Gas decreasing and No. 2 Fuel Oil and Kerosene increasing relative to the prices last month. Kerosene and No. 2 Fuel Oil prices saw the largest change with increases of 12.2% and 9.7%, respectively, relative to June 2004. No. 6 Fuel Oil and Natural Gas prices had the decreased 5.8% and 5.5%, respectively.

However, all fuel prices are higher relative to prices in July 2003. Kerosene had the largest price increase relative to July 2003 (an increase of 44.8%), followed by No. 2 Fuel Oil, Natural Gas and No. 6 Fuel Oil (increases of 38.1%, 17.4%, and 1.3% respectively). All fuel prices are stated in \$/MMBtu (Table 4.3 below).

Table 4.3 Summary of Fuel Costs for July 2004

	No. 6 Fuel Oil	Natural Gas	No. 2 Fuel Oil	Kerosene
Price: \$/MMBtu	\$4.94	\$6.32	\$7.77	\$8.70
Change from June 2004	-5.8%	-5.5%	+9.7%	+12.2%
Change from July 2003	+1.3%	+17.4%	+38.1%	+44.8%

Ancillary Services:

All Reserve prices reached their lowest monthly average price since November 1999, the inception of the NYISO, with DAM East monthly average prices of \$0.60/MW, \$0.27/MW and \$0.26/MW for 10-Minute Spinning, 10-Minute Non-Synch, and 30-Minute Reserves, respectively. DAM 10-Minute Spinning Reserve prices decreased by 46.4% in the East and 47.5% in the West from June 2004 to July 2004. On a year-to-year comparison, July 2004 DAM 10-Minute Spinning Reserve prices are down 72.6% in the East and 73.2% in the West, compared to July 2003 prices.

Monthly DAM Regulation prices averaged \$14.74/MW in the East and West, down 2.4% this month compared to June 2004. Compared to July 2003, the DAM Regulation prices are down by 25.1% (Attachment 4, Chart 4-W and Table 4-X).

- Price Reservations and Corrections:

The percentage of hours reserved decreased this month, as did the percentage of intervals corrected. The percentage of hours reserved this month was 7.80%, down from 10.69% in June 2004. The percentage of intervals corrected decreased from 1.39% in June 2004 to 0.87% this month. There were nine days without price corrections during June (Attachment 4, Table 4-Q and Chart 4-R).

- Investigation and Physical Audit:

During the month of July 2004, no investigations were requested, none were opened, and three audits were closed. The table below presents the audits conducted by the investigation unit since inception.

Table 4.4 MMP Historical Audit Summaries

	2001	2002	2003	2004	Total
Topics					
Derates & Outages	1	16	7	8	32
Reporting Verifications		1	4	4	9
Parameter Verifications		1	4	9	14
Reserve Shutdowns			8		8
Scheduling			1		1
Other	0	0	0	1	1
Total	1	18	24	22	65
Business Type					
Generator	1	14	19	15	46
Transmission Owner		4	1	3	8
Load w/curtailment			4	4	8
Total	1	18	24	22	65

- Mitigations and Penalties:

The statewide DAM Automated Mitigation Procedure (AMP) armed on July 22, 2004, with only units in New York City load pocket being mitigated. The In-City DAM AMP occurred on 22 days in July 2004. Attachment 4, Chart 4-Y shows the levels of committed unit hours mitigated In-City. The percent of DAM unit hours mitigated increased slightly to 8.3% in July from 8.2% in June 2004. The percent of RT unit hours increased from 26.4% in June to 27.8% in July 2004.

In-City RT Mitigation operated on all days this month. There were no other mitigations during July 2004.

Look Ahead

Risk Assessment:

Staff will complete the annual risk assessment in August and prepare a report for the Board and Senior Staff. Staff continues to develop methodologies for including more prospective analysis risk reports. Staff will also conduct meetings with insurance underwriters as part of the renewal application process.

Market Monitoring:

SMD market trials are continuing with significant support from MMP.

Physical audit program activity will be increasing in August and September as the summer capability period closes.

Preparations for the winter reference level update will begin in August. Generators can expect to see data requests either in August or September.

Attachments

- Attachment 4-A: Daily NYISO Average Cost/MWH (Energy & Ancillary Services)
- Attachment 4-B: NYISO Average Cost/MWH (Energy and Ancillary Services)
- Attachment 4-C: NYISO Dollar Flows – Uplift -OATT Schedule 1 components
- Attachment 4-D: NYISO Market Transactions
- Attachment 4-E: NYISO Markets 2003-2004 Energy Statistics
- Attachment 4-F: NYISO Monthly Average Internal LBMPs
- Attachment 4-G: Zonal Statistics for NYISO (\$/MWH)
- Attachment 4-H: West Zone A Monthly Average LBMP Prices 2003-2004
- Attachment 4-I: Capital Zone F Monthly Average LBMP Prices 2003-2004
- Attachment 4-J: Hudson Valley Zone G Monthly Average LBMP Prices 2003-2004
- Attachment 4-K: NYC Zone J Monthly Average LBMP Prices 2003-2004
- Attachment 4-L: Long Island Zone K Monthly Average LBMP Prices 2003-2004
- Attachment 4-M: DAM and RT Zonal Unweighted Monthly Average LBMP Components
- Attachment 4-N: External Comparison ISO-NE
- Attachment 4-O: External Comparison PJM
- Attachment 4-P: External Comparison Ontario IMO
- Attachment 4-Q: NYISO Price Correction Statistics
- Attachment 4-R: Percentage of Real-Time Corrections
- Attachment 4-S: NYISO Virtual Trading Average MWh per day
- Attachment 4-T: Virtual Load and Supply Zonal Statistics
- Attachment 4-U: NYISO Multi-Hour Block Transactions Monthly Total MWh
- Attachment 4-V: NYISO Monthly Average Ancillary Service Prices, DAM 2003-2004
- Attachment 4-W: NYISO Monthly Average Ancillary Service Prices, BME 2003-2004
- Attachment 4-X: NYISO Markets 2003-2004 Ancillary Service Statistics
- Attachment 4-Y: NYISO In City Mitigation (NYC Zone) 2003-2004 Percentage of committed unit-hours mitigated
- Attachment 4-Z: NYISO Average Daily Load Bid Summary
- Attachment 4-AA: NYISO LBMP Zone Map with Super-zones
- Attachment 4-AB: 2004 Corporate Goals and Objectives

5. Strategic Development

Management Summary

Business Planning

- ◆ Business Plan and Incentive Goals:

The 2004 Business Plan and Incentive Goals are being implemented and monitored, with progress reports going to Senior Management. Development of the 2005 Business Plan is underway with the internal business planning team meeting weekly. In addition, the Senior Management Strategic Committee is engaged in providing guidance on the development of the plan and incentive goals.

- ◆ Strategic Plan:

The Five-Year Strategic Plan is being implemented; monitoring and analysis of 2004 activities is continuing. The Senior Management Strategic Committee (SMSC) continues to review progress on the plan and discuss 2005 activities.

System & Resource Planning

- ◆ Resource Adequacy:

Report titled "Annual Assessment of Resource Adequacy – Covering the New York Control Area - For the Years 2004 – 2007" was approved by RCMS of the NYSRC. Staff provided a curve of locational requirements versus IRM to the ICS. 2005 Installed Reserve Margin study base case MARS runs are underway. Assumptions for the base case of this study have been approved by the ICS and are being provided to the executive committee of the NYSRC.

- ◆ Transmission Planning:

Comments received on the Initial System Planning Study Report are being addressed. The Management Committee approved the proposed Comprehensive Reliability Planning Process. The Operating Committee approved the System Reliability Impact Studies for three projects: Ginna Plant Upgrades, Chautauqua Wind Power, and LIPA Wading River Emergency Generation. The Administrative Law Judge recommended FERC approval of the Class 2001 cost allocation settlement. Staff has been reviewing responses to the June 28th notices sent to project Developers and Transmission Owners regarding pending changes to the NYISO interconnection procedures. The Reliability Coordinating Committee (RCC) approved the scope of the NPCC Overall Transmission Study and the study is now underway. The RCC also approved the 2003 New York Intermediate Transmission Review and the proposed NPCC (TFSS) Blackout Study Plan. Staff continued to participate in NERC/MEN/NPCC conferences and study activities related to the August 14 Blackout. Work on Phase 2 of the NYISO/NYSERDA Wind Generation Integration Study continues. Staff provided transfer limits to be used for the next Statewide Installed Reserve Margin (IRM) Study.

- ◆ Load Forecasting:

The July Day-Ahead forecast average absolute error for the NYCA peak was 3.06% and the weather-adjusted error was 1.92%. Corresponding year-to-date numbers are 2.34% and 2.00%, respectively. Revised models were sent to Market Operations for evaluation. The test models have been performing better than the production models on a weather-normalized basis, while the production models have been performing better on an actual basis.

Tracking of the ISO-New England and PJM day-ahead forecast errors was begun.

Staff is participating in the evaluation of the RTS forecasting components.

Staff is participating in developing reliability region-specific bandwidths for the NERC LFWG.

Work continues on revising the Load Forecasting Manual. The LFTF is providing comments on the draft version.

Series of weather-normalized sendout and summer and winter peaks are being developed for super zones. Zones A – E will be the West, F – I, the East. J and K will remain separate.

Look Ahead

Business and Strategic Planning

Drafts of the 2005 Incentive Goals and 2005 implementation of the Strategic Plan will be developed over the summer months. Staff will meet with the BS&P regularly to discuss the 2005 Incentive Goals drafts.

System & Resource Planning

◆ Resource Adequacy:

Continue to perform 2005 IRM study base case MARS runs. Draft IRM base case is Due September 1. Work with ICS on 2005 study methodology (joint with locational study) and assumptions. Submit white paper on overstatement of resource availability to the NYSRC executive committee and work to resolve any outstanding issues.

◆ Transmission Planning:

Address comments on the Initial System Planning Study and finalize the report. Prepare the Comprehensive Planning Process filing. Continue to provide assistance and review of studies for proposed new interconnections. Continue preparations to implement the new interconnection procedures outlined in the NYISO's compliance filing. Prepare to implement the Class 2001 settlement agreement, pending FERC approval. Continue analysis for the 2004 New York Area Transmission Review. The NPCC SS-37 Working Group to proceed with the NPCC Overall Transmission Study. Continue work on the August 14 blackout investigation and follow up on the Joint Task Force blackout recommendations. Continue Phase 2 of the NYISO-NYSERDA Wind Generation Integration Study.

◆ Load Forecasting:

Production and test models will continue to be tracked.

Revision of the Load Forecasting Manual will continue with participation by the Load Forecasting Task Force and ICAP Working Group.

Staff will participate in developing regional bandwidths for the NERC regions.

A workstation to run the RTS forecaster will be obtained and installed.

Development of regional weather normalized sendout and peak will be completed.

Attachments

Attachment 5-A, NYISO Daily Peak Load

Attachment 5-B, Day-Ahead Forecast (Weather-Adjusted) Performance Tracking

Attachment 5-C, Plot of 12-Month Moving Total of NYCA Weather Adjusted Energy Sendout

Attachment 5-D, Plot of Weather Adjusted 12 Month Moving Total Energy Sendout Annual Percent Change

Attachment 5-E, Plot of 12 Month Moving Total of NYCA Energy Sendout and Effective Degree Days for 10 years

Attachment 5-F, Plot of 12 Month Total Energy Sendout Annual Percent Change for 10 Years

6. Regulatory Affairs and General Counsel

Management Summary

The NYISO made 11 FERC filings in July 2004, Market Participants made five NYISO-related filings (or groups of filings), and FERC trial staff filed comments on a complaint settlement. FERC issued two substantive orders, two letter orders, and one administrative order regarding NYISO dockets. A FERC ALJ certified uncontested financial and non-financial settlements. Listings of the NYISO-related regulatory filings and FERC orders issued in July are included as Attachments 6-A and 6-B.

NYISO Compliance Filing Regarding Creditworthiness Requirements for Prepaying Customers (ER03-552-009 and ER03-984-007) – Filed July 2, 2004

FERC required that the NYISO's proposed collateral for ten days exposure from prepaying customers be based on the amount by which the NYISO has historically underestimated prepayment amounts. In this filing, the NYISO explained to FERC that since the NYISO has not significantly underestimated prepayments, the collateral amount would not be sufficient to offset the administrative effort to calculate and collect it. The NYISO, therefore, filed tariff revisions eliminating the requirement that prepaying customers provide 10 days of collateral. FERC had also required the NYISO to file revisions so that the true-up collateral provision of the Operating Requirement for prepayment customers would include only the difference between the total amounts provided by the prepayment customer (i.e., the sum of the prepayment amount and the ten days of collateral) and its true-up exposure. Because the NYISO is not requesting collateral to address underestimated prepayments, the NYISO submitted a revised true-up formula that reduces the collateral required by the amount of the customer's average prepayment.

FERC Order Denying Complaint Concerning the Calculation of In-City Installed Capacity Rebates (EL04-36-000) – Issued July 13, 2004

FERC denied a complaint against the NYISO alleging that NYISO improperly computed In-City ICAP rebates for In-City capacity purchases that were made by the complainants between May and October of 2003. The complainants had sought refunds of approximately \$21 million. FERC denied the complaint based on a finding that the rebates were properly computed and paid in accordance with the NYISO's tariff and the applicable FERC order and because the complainants were on notice that the NYISO had requested that FERC approve implementation of the change before the summer of 2003. FERC determined there was no violation of the Filed Rate Doctrine.

NYISO Filing of ISO Agreement Revisions Regarding the Addition of Demand Response Providers (DRPs) and Distributed Generators (DGs) (ER04-1024-000) – Filed July 15, 2004

The NYISO filed proposed amendments to the ISO Agreement to explicitly allow DRPs and DGs to join the Other Suppliers sector. There are two exceptions to this rule for DGs. If the DG is owned by an End-Use Consumer or an Affiliate thereof, and the NYISO determines that the primary purpose of the DG is to supply electrical energy and capacity to that End-Use Consumer, then the DG Owner is eligible to participate in the End-Use Consumers sector. If the DG is owned by an entity that is not an Affiliate of an End-Use Consumer, and the NYISO determines that the primary purpose of the DG is to sell electrical energy and capacity into the grid, then the DG Owner is eligible to participate in the Generator Owners sector. In all other cases, DG entities are eligible to join the Other Suppliers sector.

FERC Order Accepting TCC Settlement (EL04-110, EL04-113-000/001, EL04-115-000/001 and ER04-983-000/001) – Issued July 22, 2004

FERC accepted the settlement that resolved the issues surrounding the oversold TCCs and a related complaint filed by a number of Transmission Owners against the NYISO concerning the NYISO's administration of its Transmission Congestion Contract (TCC) authority and that modifies an earlier filing by the NYISO attempting to remedy the effects of an error in several TCC auctions. FERC also accepted proposed tariff revisions and waived other tariff provisions which gave the NYISO the authority to take the steps outlined in the Settlement.

Letter Orders: During July 2004, FERC issued two letter orders. One rejected as moot the NYISO's November 2000 alternate compliance filing regarding the formula for calculating lost opportunity cost payments (ER00-1969-005). The other accepted the NYISO's June 16, 2004, filing of tariff revisions to address certain transmission charges billed and collected by the transmission owners in the NYISO's creditworthiness requirements (ER04-932-000).

Look Ahead

The NYISO is preparing FERC filings regarding: TCC settlement compliance; the comprehensive planning process; DADRP modifications; the status of PURPA units under SMD; and bid production cost guarantees for reserve and maximum generation pickups under SMD.

Attachments

- Attachment 6-A, NYISO Regulatory Filings – July 2004
- Attachment 6-B, NYISO Related FERC Orders – July 2004

7. Committee Activities

Management Summary

Management Committee (MC): The MC met on July 7, 2004 in Saratoga, New York.

- The committee voted to approve the NYISO Comprehensive Reliability Planning Process.

Business Issues Committee (BIC): The BIC met on July 21, 2004.

- The committee voted to approve resolutions to amend the Bid Production Cost Guarantees for Reserve and Maximum Generation Pickups in SMD2, to forgive Gas Turbine Penalties both going forward and retroactive to June 1, 2003, and related to the treatment of PURPA Units in RTS.

Operating Committee (OC): The OC met on July 22, 2004.

- The committee approved the Airtricity Hartsville Wind Farm Study Scope, the Chautauqua Windpower Project SRIS, the NYISO Fault Duty Assessment – Summer 2004, the NYISO Restoration Drill Switching Procedures, the RG&E Ginna Plant Uprates Project SRIS, and the Voltage Analysis with Athens in Service.

New York State Reliability Council (NYSRC):

- Review of LCR/IRM Methodology:

LCR Definition – The Executive Committee (EC) reviewed the Locational Capacity Requirements Methodology developed jointly by ICS and the NYISO as background information regarding the relationship between Statewide IRM and Locational Capacity Requirements (LCR) at a constant LOLE of .1days/year. Historically, the established LCRs fell on the curve at a point such that increasing the LCR would not result in a lowering of the Statewide IRM. This year the joint ICS/NYISO Working Group has found that increasing the LCR will result in a lower IRM, e.g., the IRM is no longer minimal at the current levels of LCRs. Mr. Dahl explained that, at this stage in the development process, ICS/NYISO is looking for the Committee's concurrence to pursue a definitive means of establishing LCR once the NYSRC determines the IRM, e.g., a specific Point or "anchor" on the IRM vs. LCR curve. It was also noted that there are other reliability metrics to consider, e.g., providing improved zone reliability and identifying benefits of building transmission required to relieve constraints that impact reliability. Others reminded the EC that most reliability considerations have economic side effects and that NYSRC Policy NO. 5-0, Procedure for Establishing New York Control Area Installed Capacity Requirements, specifies LCR as a reliability measure and establishes the relationship between IRM and LRC at Section 3.5.5. Following lengthy additional discussion, it was determined that numerical information is needed before the Committee could offer informed guidance to the ICS/NYISO. Mr. Dahl requested, therefore, that the ICS/NYISO provide the EC a table of IRM and associated LCR at a constant LOLE of .1day/yr. and the corresponding zonal contributions to LOLE.

Look Ahead

Management Committee:

- On August 3, the MC is scheduled to vote on the proposals approved by BIC in July and there will be a presentation on a possible new NYISO facility in addition to the regular reports.

New York State Reliability Council (NYSRC):

- The next two meetings are scheduled for September 10, 2004 and October 8, 2004 respectively.

Attachments

Attachment 7-A, MC Motions

8. Information Technology

Management Summary

The SMD2 project team conducted two (2) Market Trial exercises during the month of July; a second Day-Ahead market simulation and the first Real-Time market simulation. The Day-Ahead Market Trial was a variation on the exercise that was conducted in June where Market Participants submitted bids, a simulated Day-Ahead market was conducted, and the results were posted. The Real-Time market trial was a significantly more complex test, where bids were submitted by MPs for both that DAM and Real-Time markets, a Day-Ahead market was conducted, 24 hours of Real-Time operation were simulated, and a bill was generated from the data that was collected. The Real-Time market trial was the first end-to-end demonstration of the new SMD2 system for Market Participants. Both exercises received good participation on the part of the Market Participants.

The results of the Day-Ahead market trial were consistent with those results achieved during the first test and were largely successful. The Real-Time market trial encountered stability problems during some hours of the test with the power system simulator that limited the opportunities to demonstrate operation of the new Real-Time applications. Additionally, the periods where the simulator did not run resulted in gaps in the historical data that reduced the accuracy of the simulated bill that was created following the exercise. During the intervals where the simulator worked reliably, the new Real-Time applications worked according to their design. Additionally, the integration between the NYISO software and the new ABB software worked effectively, and most modifications to the NYISO applications themselves were tested successfully. A number of software defects were identified and are being addressed prior to the next market trial exercise.

ABB delivered a new software release that contained fixes to previously identified software defects, and a number of the Phase 2b development items. ABB development activities for the Phase 2b items are moderately ahead of schedule to deliver the remaining features required for the "Go Live" milestone.

The Decision Support System (DSS) was modified to include the Alternate Data Delivery (ADD) enhancements. The ADD provides Market Participants the capability to retrieve their Hourly and Daily Customer Statement files directly from the data warehouse as opposed to the static CSV files posted to the web. This deliverable is important in that it is a critical prerequisite to support the SMD deployment.

The development activities of the Billing Simulator project are proceeding. Software has been delivered for Quality Assurance testing for over half of the settlements that are included within the scope of this phase of the Billing Simulator project, and are under review by the NYISO staff.

The E-Tagging Maintenance Release version 1.3 successfully completed Quality Assurance Integration Testing and was deployed to the Production System.

Look Ahead

The SMD2 project team is scheduled to perform two (2) additional Real-Time market trials during the month of August. These exercises will be similar in design to the first real-time simulation, but will be based on increasingly more difficult system conditions, and will be structured to include simulated power system events.

Development activities on the current phase of the Billing Simulator project are scheduled to conclude.

9. Human Resources

Management Summary

Two new employees and no new contractors were hired in July.

Total new employees hired for 2004 is 35; total new contractors hired are ten.

There were four terminations in July.

A total of 15 interviews (for both employee and contractor positions) were conducted in July. From these interviews, five offers for direct hire were made, two were accepted, and three rejected.

Forty-six Power Plus Awards were awarded to employees in Corporate and Risk Management, IT, Market Services, Finance, Strategic Development, Admin & Compliance, Operations, General Counsel, and Communications.

The following training activities took place during the month of July:

- A SMD2 transition acclimation session was conducted on July 22 The Market Training Staff compiled and posted Question and Answers for various issues raised during the SMD2 sessions conducted so far.
- One DSS introductory course was conducted via Webex as were two "ADD Pullout" sessions.
- Three "Super-Vision" training modules to new supervisors were delivered during July - Acclimation of New Hires, Performance Goal Setting, and Selection Interviewing.
- Course development is nearing completion for the 2004 employee/manager Organizational Excellence program. This training will be instructed this fall.

Look Ahead

The following programs are planned for the near future:

- The next NYMOC (New York Market Orientation Course) session will be conducted on September 28 – October 1 in Saratoga Springs.
- An SMD2 transition acclimation session will be conducted on August 11 in Albany. Additional sessions will be repeated, if necessary.
- Five DSS sessions are planned during August:
 - ADD Pullout sessions (Webex) are scheduled for August 4 and 19
 - An Introductory course will be conducted via Webex on August 12
 - A Hands-on Intermediate course will be conducted for Market Participants on August 17
 - A Hands-on Intermediate course will be conducted for Employees on August 12
 - Additional courses will be conducted thereafter
- The Market Participants Users Guide (MPUG) is being completed to include SMD2 enhancements.

DEPARTMENT	Current Staff 07/31/2004	Current Openings	Total Budgeted Employees 12/31/2004
Executive	2	1	3
Finance	23	5	28
Human Resources	15	1	16
Information Systems	113	18	131
Market Services	45	2	47
Operations	77	5	82
Strategic Development	13	1	14
Corporate & Market Risk	40	4	44
Government Affairs & Comm. Communications	6	1	7
General Counsel	8	0	8
Regulatory Affairs	5	0	5
Administration & Compliance	21	0	21
Total	368	38	406

10. Government Affairs and Communications

Management Summary

Media Inquires and News Releases:

The NYISO managed 43 inquiries.
The NYISO issued one news release:

July 6 "NYISO Receives Praise with Release of NERC Audit Report"

Interviews & Presentations:

July 6, 13, 20, 27 New England/DOE Summer Operational Conference Calls
July 15 Interview, "Computer World", J. Sobel & C. Murphy
July 16 Interview, "Dow Jones", W. Museler
July 16 Interview, "Information Week", W. Museler & M. Calimano
July 30 WCBS Radio, W. Museler

Government Affairs:

July 7 PSC meeting on sales tax issue
July 21 FERC call on sales tax issue

Tours:

July 1 New York Power Authority Technical Training Class
July 12 CFE Mexico
July 21 Niagara Mohawk Communications Staff
July 27 New Employees
July 28 Hewlett Packard Representatives

Internal Communications:

Web Site: 181 postings were added to the site, 23 Webmaster requests were resolved, and two portal updates were made.

July 27 "The Independent" was published and issued.
July Inaugural issue of The NYISO Current

Look Ahead

August 2 Tour for Russian Utility Representatives

11. Finance

Management Summary

Budget:

2004 spending is tracking within budget. Detailed projections of spending to December 31, 2004 indicate a potential underrun of approximately \$2 million. In July, NYISO began the 2005 budget process, which will be presented to Market Participants in September and finalized in November.

On July 8, a meeting of the Budget, Standards & Performance subcommittee ("BSP") was held to review 2004 budget vs. actual results year-to-date, to continue discussions with NYISO officers regarding future year budget projections, and to discuss options for consolidating the NYISO's existing facilities. The next BSP meeting is scheduled for August 4.

Credit Department:

Ken Davis, Andy Antinori, and Phil Gootee attended the July 13 FERC conference on credit issues. Moody's Investors Services made a presentation to the credit department. Moody's demonstrated some of the software tools available which may enhance the NYISO's credit analysis process. One of the functions of these provides for the pricing of credit default swaps. These types of instruments may be an alternative to the traditional credit insurance coverage currently being offered.

Market Settlements Activities:

The consolidated invoice issued in July 2004 represented the June 2004 Energy and ICAP charges, the June 2003, and February 2004 settlement adjustments, and the June 2002 final settlement.

Other Matters:

On June 4, the Management Committee approved a motion to amend the current 85%/15% recovery mechanism of Rate Schedule 1 to an 80%/20% allocation, effective January 1, 2005. NYISO staff will review the revised Rate Schedule 1 allocation with the Board of Directors in August. Pending Board approval, a FERC filing will be made shortly thereafter.

Look Ahead

NYISO's tax return, IRS Form 990, will be completed by the August 15 deadline. Staff is also drafting the first FERC Quarterly Report, Form 3-Q, which is due August 23.

Attachments

- Attachment 11-A, NYISO Budget vs. Actual Analysis
- Attachment 11-B, Gross Revenue – Energy Market
- Attachment 11-C, Market Participant Energy Billings – Receivables
- Attachment 11-D, Market Participant Energy Billings – Payables

12. Administration and Compliance

Management Summary

Facilities and Security:

Security Staff and representatives from NYISO management met with Dr. Griffith of Sandia Labs to discuss the biological and chemical hazards and risks. Monitoring and mitigation techniques available for current and future NYISO facilities, and potential joint NYISO-Sandia Lab activities were discussed.

Contract Administration:

- Continued rapid response/placement of consulting efforts and equipment upgrades to address critical infrastructure and redundancy needs at PCC, Wolf Road, and the Annex
- Assistance in support information and planning activities toward the review and consideration of a new facility
- Continued proactive updating of insurance certifications, conflicts of interest statements, and Master Consulting Agreements as necessary across all departments.
- Critical RFP activity in support of the review of NYISO work processes.

Project Management:

Project deployments in the past month:

One project was deployed during the month of July.

A664 DSS Alternate Data Delivery (ADD):

The deployment of ADD within the DSS provides end users, including Market Participants and internal NYISO staff, the ability to obtain data from the DSS using automated interfaces to download Customer Settlement data to their systems. This deployment also included changes within DSS needed to support the pending Grouped Units project.

Changes in the Projects Portfolio:

The table below summarizes the number of projects currently included in the Projects Portfolio.

Project Category	Previously Scheduled ¹	Completed	Additions	Currently Scheduled ²
Priority Projects	43	1	0	42*
Studies and Training	19	0	0	19
Total	62	1	0	61

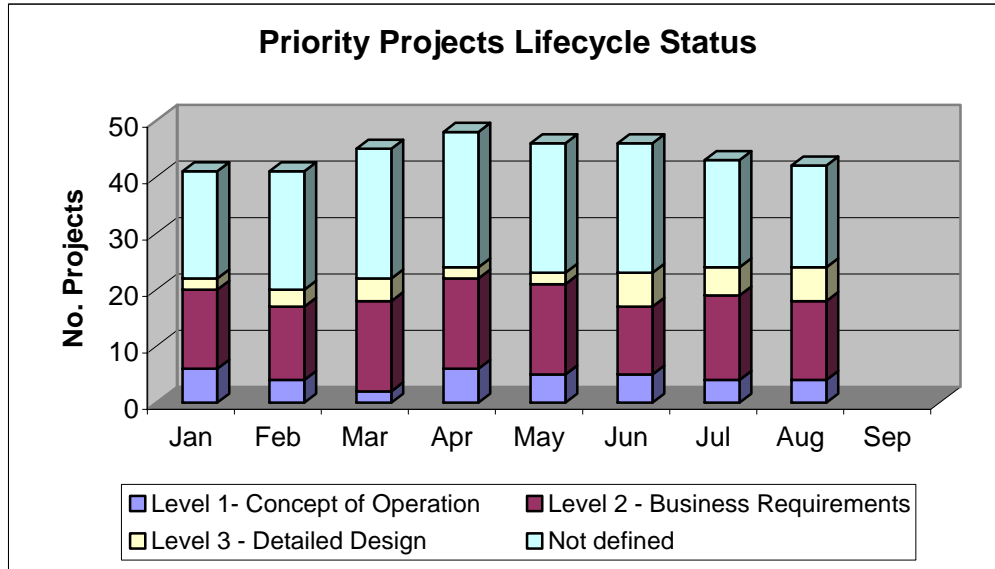
Notes: ¹ Previously Scheduled – reflects status as of June 1

² Currently Scheduled - reflects status as of July 2

* A700 Computer Systems Availability Monitoring project was removed from the Projects Portfolio since it is being worked as part of Baseline IT effort and does not require a unique project.

Priority Project Lifecycle Status:

The graph below illustrates the status of Priority Projects within the project lifecycle.



- Level 1 indicates a project in its preliminary or conceptual stage with a completed Issue Discovery or Concept of Operation document. Class 100 estimates for resources, schedule and cost are prepared at this time (assumed to have +/- 100% accuracy).
- Level 2 is achieved when the Business Requirements document (aka FRS) is completed and the project scope is more clearly defined. Class 50 estimates for resources, schedule and cost are prepared at this point in the project lifecycle (assumed to have +/- 50% accuracy).
- Level 3 is reached when a System Design Specification (SDS), defining the detailed software design requirements, is completed. Class 10 estimates for resources, schedule and cost are prepared at this point in the project lifecycle (assumed to have +/- 10% accuracy).
- "Not defined" means the project is still in the initial conceptualization phase.

The estimate levels defined above are also shown for each project on the Projects Portfolio Gantt chart. As a project progresses through these levels the resource, schedule and cost estimates become more accurate.

Look Ahead

Project Management:

Project Deployments Planned for the Next Month:

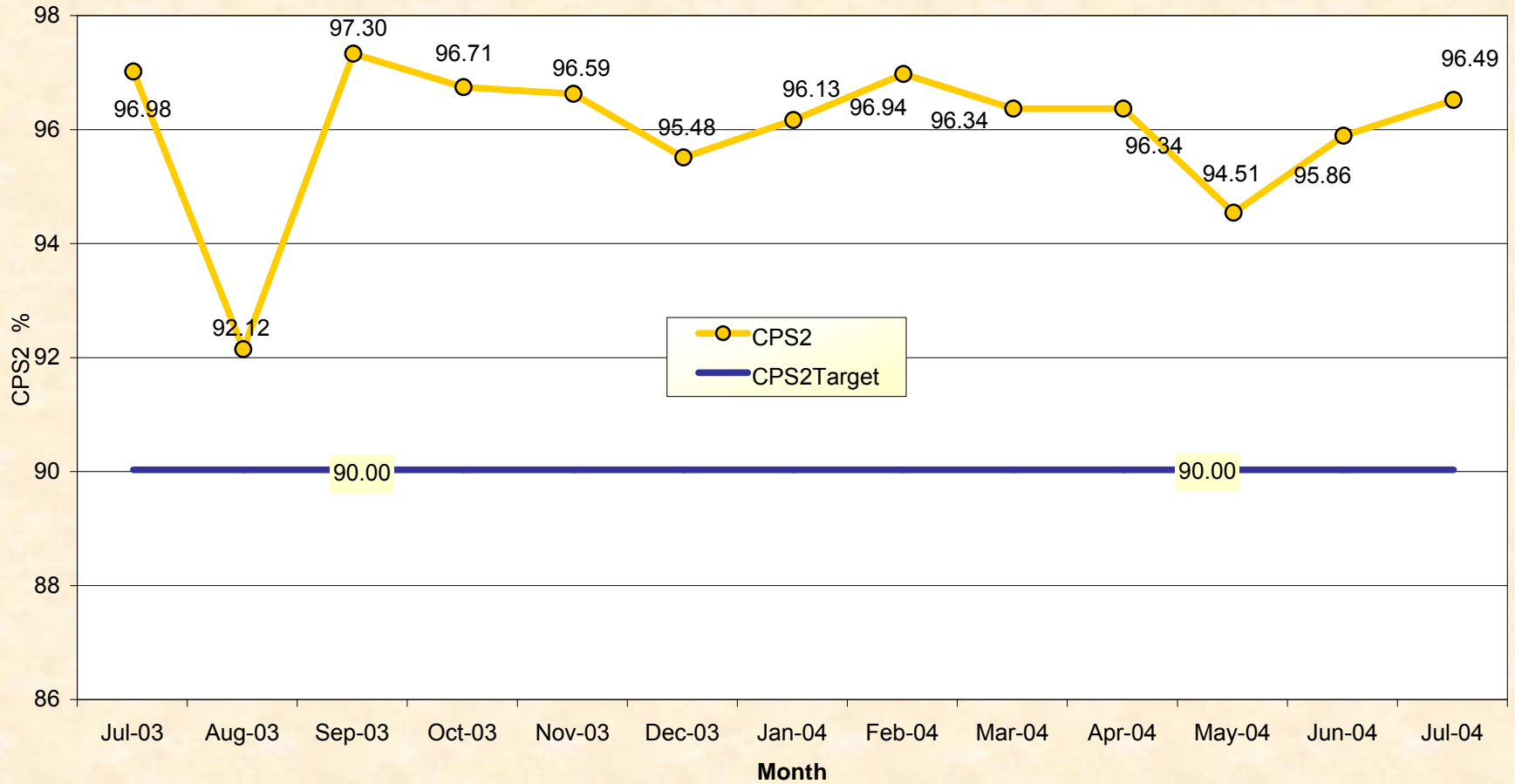
Presently no major project deployments are scheduled for August due to the intense focus on SMD related project work.

Attachments

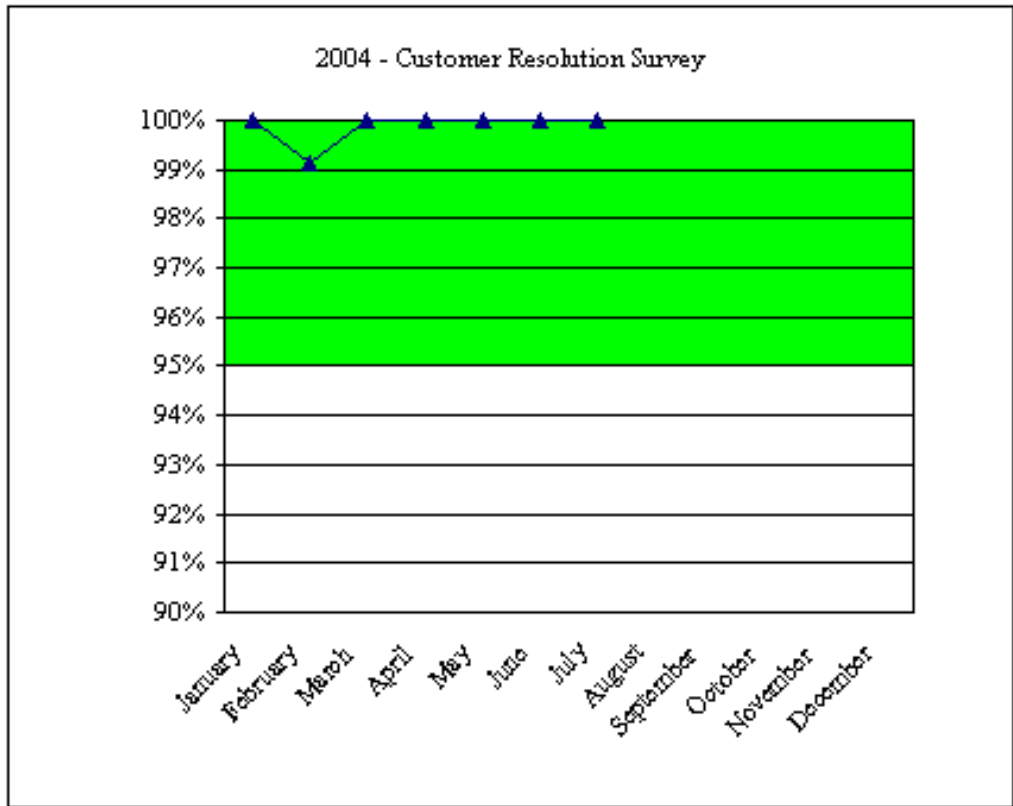
- Attachment 12-A, Summary report - Status of Priority Projects
- Attachment 12-B, Projects Portfolio

NERC Control Performance Standard

NYISO Compliance
Year 2003/2004

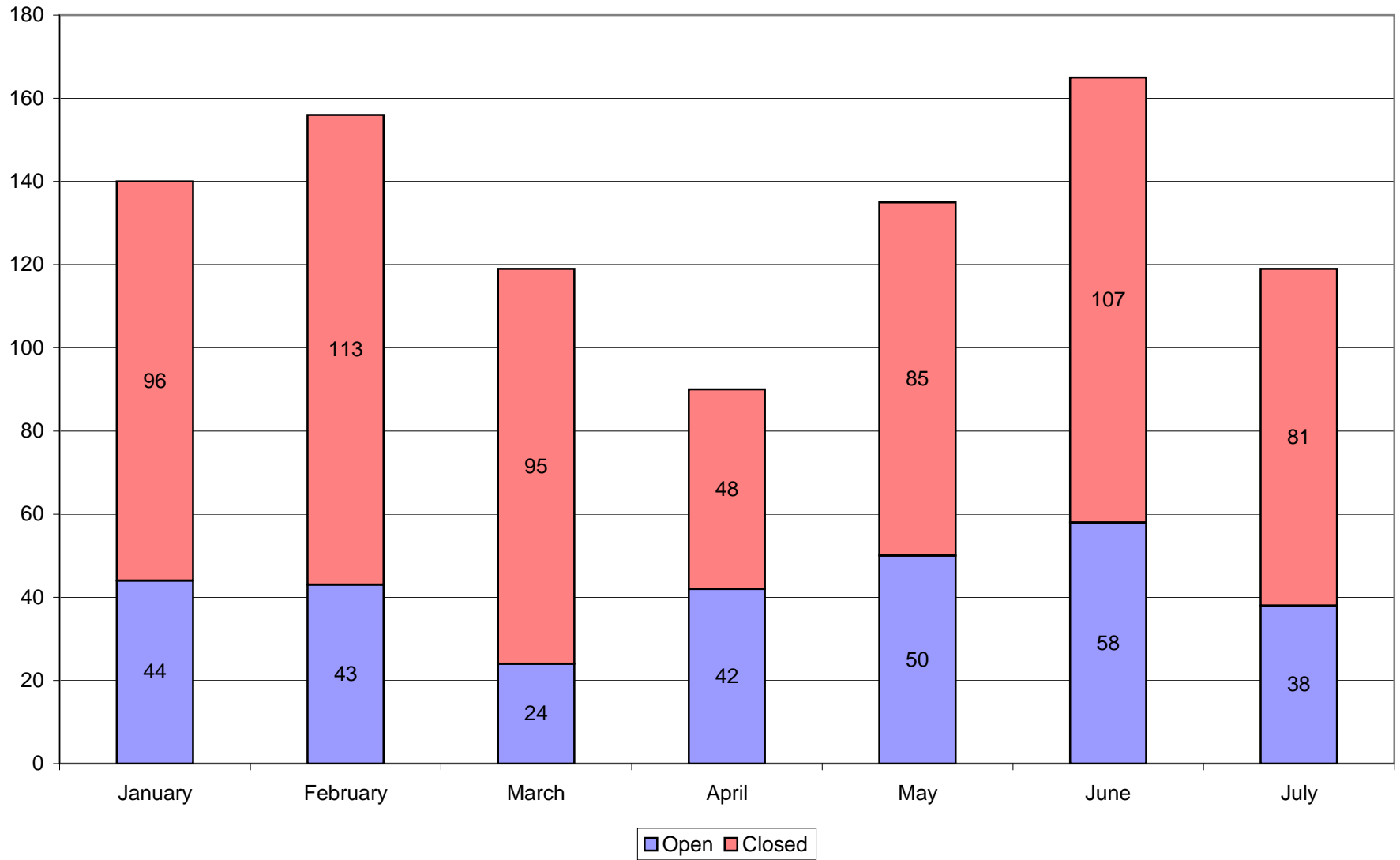


CPS2 for July = 96.49% Compliance Threshold = 90%
CPS2 measures excessive unscheduled power flow resulting from large Area Control Error (ACE)

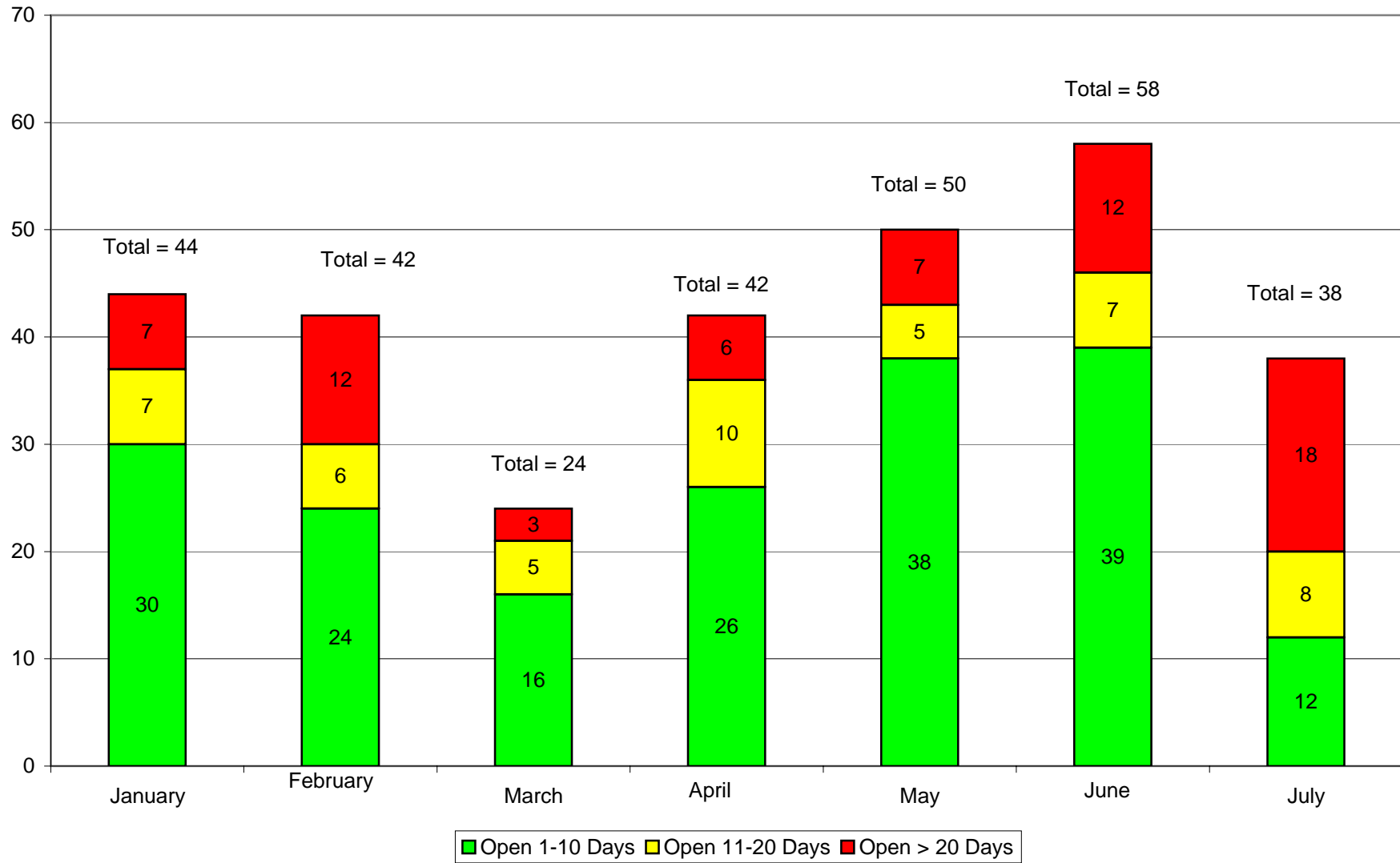


The Customer Resolution Survey Goal for 2004, has been set at 95%. For the month of July, 81 inquiries were sent out. No replies were received that the response was not timely. A 100% (superior) level was achieved for the month. For the period January-July, a total of 625 inquiries were sent out, one (1) customer indicated that the response was not timely. A 99.8% level was achieved.

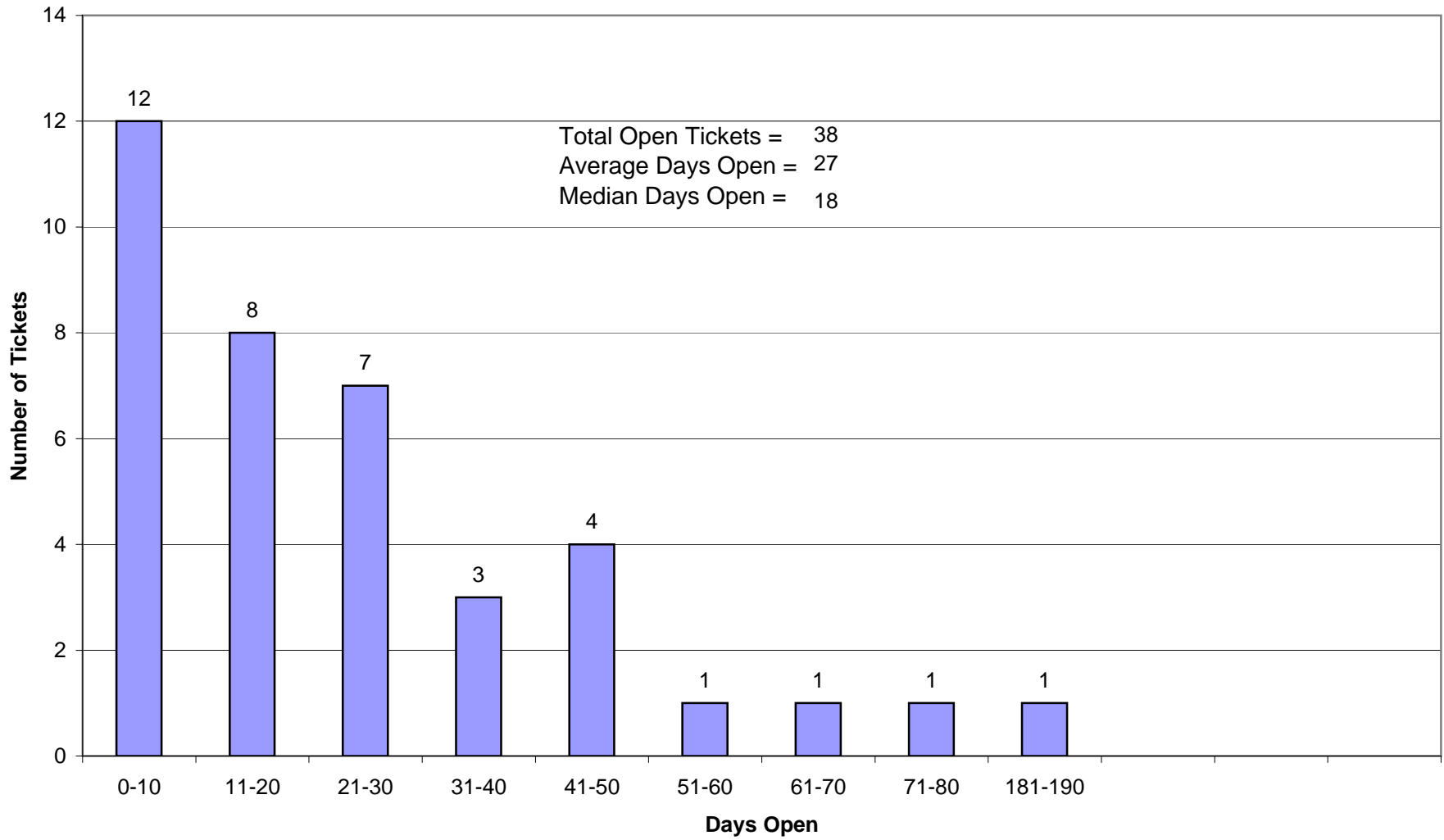
Tickets Open, Tickets Closed as of End of July, 2004



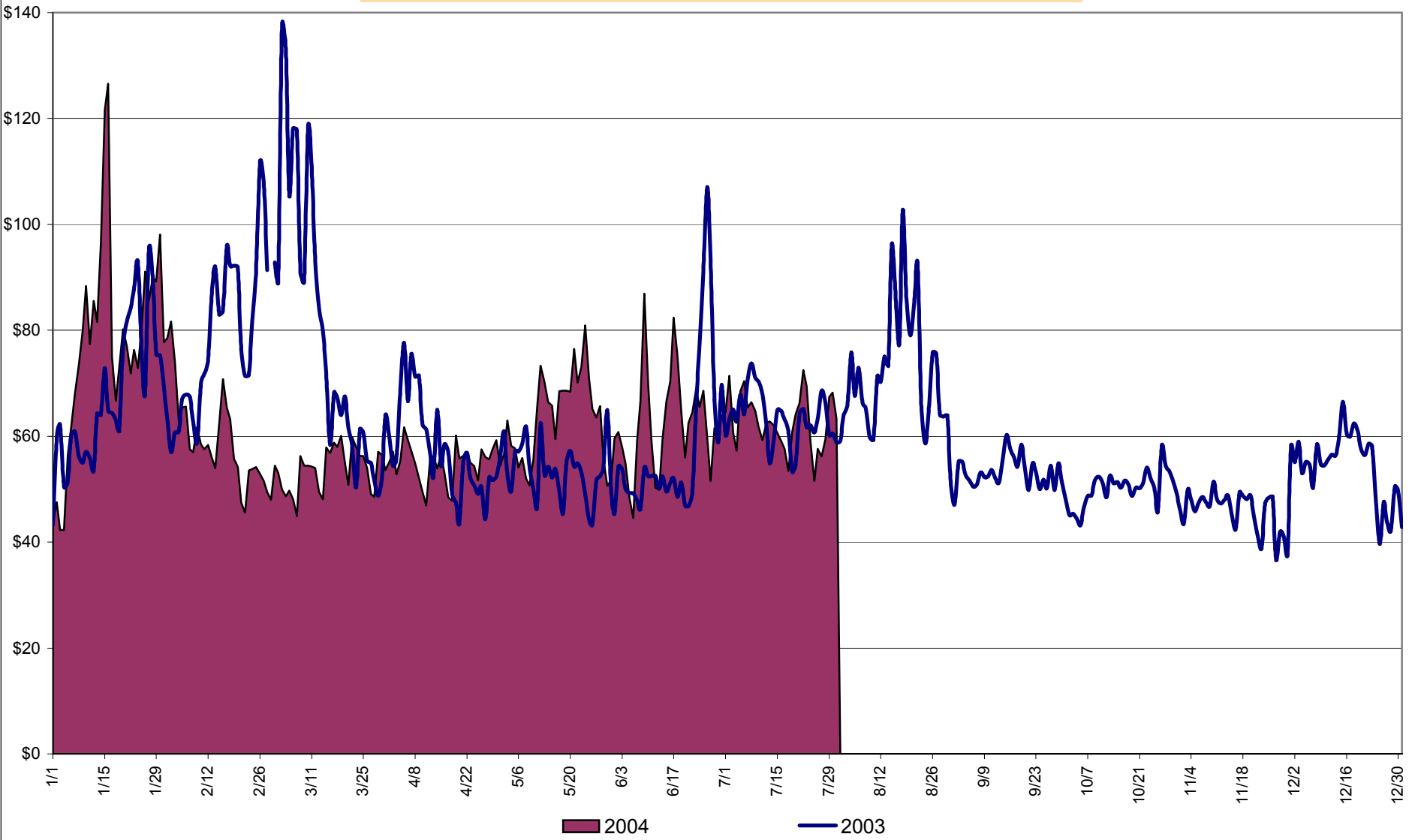
Open Tickets by Month July 2004



**Number of Tickets Open By Days
July 2004**



Daily NYISO Average Cost/MWH (Energy & Ancillary Services)*
2003 Annual Average \$62.40/MWH
July 2003 YTD Average \$66.81/MWH
July 2004 YTD Average \$63.28/MWH



4-A

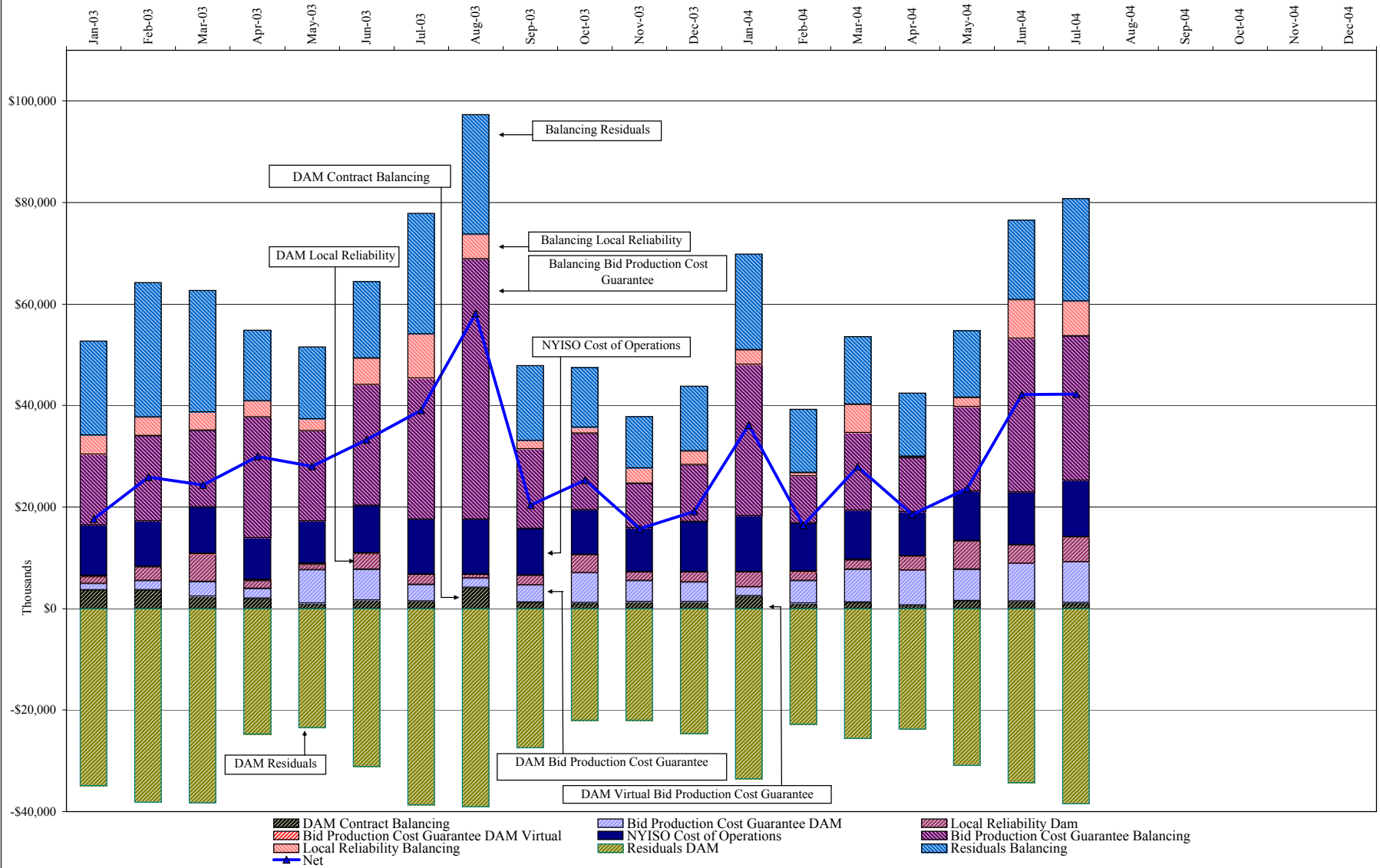
**NYISO Average Cost/MWH (Energy and Ancillary Services)*
from the LBMP Customer point of view**

2004		January	February	March	April	May	June	July	August	September	October	November	December
	LBMP	76.13	57.13	50.56	52.49	61.23	59.78	59.59					
	NTAC	0.47	0.42	0.55	0.51	0.42	0.53	0.34					
	Reserve	0.27	0.14	0.20	0.17	0.14	0.09	0.06					
	Regulation	0.18	0.34	0.28	0.13	0.11	0.11	0.13					
	NYISO Cost of Operations	0.73	0.73	0.73	0.73	0.73	0.73	0.74					
	Uplift	1.57	0.44	1.27	0.76	0.92	2.15	1.99					
	Voltage Support and Black Start	<u>0.36</u>	<u>0.36</u>	<u>0.36</u>	<u>0.36</u>	<u>0.36</u>	<u>0.36</u>	<u>0.36</u>					
	Avg Monthly Cost	79.72	59.56	53.96	55.14	63.92	63.75	63.21					
	 Avg YTD Cost	79.72	70.68	65.29	63.02	63.19	63.29	63.28					

2003		January	February	March	April	May	June	July	August	September	October	November	December
	LBMP	66.34	76.59	78.31	54.28	49.77	57.46	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	0.34	0.22	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	1.67	1.78	2.73	0.77	1.21	0.45	0.57
	Voltage Support and Black Start	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>
	Avg Monthly Cost	68.83	79.71	81.81	58.18	53.89	61.16	63.83	72.68	53.35	50.20	46.01	54.58
	 Avg YTD Cost	68.83	74.02	76.58	72.21	68.83	67.47	66.81	67.73	66.20	64.71	63.15	62.40

* Excludes ICAP payments

NYISO Dollar Flows - Uplift - OATT Schedule 1 components



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

DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.

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

NYISO Markets Transactions

Transactions 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	13,737,390	15,071,422					
DAM LSE Internal LBMP Energy Sales	52%	50%	51%	51%	47%	49%	53%					
DAM External TC LBMP Energy Sales	4%	2%	3%	3%	4%	3%	2%					
DAM Bilateral - Internal Bilaterals	41%	45%	44%	44%	46%	45%	43%					
DAM Bilateral - Import/Non-LBMP Market Bilaterals	1%	1%	1%	0%	0%	0%	0%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	1%	1%	1%	1%	1%					
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%	1%	1%	1%					
Balancing Energy Market MWH	367,460	269,220	508,837	238,876	379,159	424,726	139,472					
Balancing Energy LSE Internal LBMP Energy Sales	66%	31%	61%	84%	30%	29%	-46%					
Balancing Energy External TC LBMP Energy Sales	57%	78%	41%	38%	77%	74%	170%					
Balancing Energy Bilateral - Internal Bilaterals	-20%	0%	0%	-9%	3%	5%	13%					
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	1%	0%	0%	0%	0%	0%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	0%	1%	1%	0%	1%					
Balancing Energy Bilateral - Wheel Through Bilaterals	-4%	-11%	-3%	-14%	-11%	-8%	-39%					
Transactions Summary												
LBMP	58%	54%	56%	55%	53%	54%	55%					
Internal Bilaterals	40%	44%	42%	43%	45%	44%	43%					
Import Bilaterals	1%	1%	1%	0%	0%	0%	0%					
Export Bilaterals	1%	1%	1%	1%	1%	1%	1%					
Wheels Through	1%	0%	1%	0%	1%	1%	0%					
Market Share of Total Load												
Day Ahead Market	97.5%	97.9%	96.2%	98.0%	97.2%	97.0%	99.1%					
Balancing Energy †	2.5%	2.1%	3.8%	2.0%	2.8%	3.0%	0.9%					
Total MWH	14,981,764	13,075,566	13,345,726	12,057,193	13,405,319	14,162,116	15,210,894					
Average Daily Energy Sendout/Month GWh	464	440	416	393	408	451	481					

Transactions by Market 2003

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%	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%	50%	46%	49%	46%	43%	40%	48%	47%	48%	46%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	1%	1%	1%	1%	1%	1%	1%	1%	1%
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	2%	2%	2%	1%	1%	1%	1%	1%	2%
Balancing Energy Market MWH	347,539	285,381	376,222	235,800	278,939	291,519	208,142	-55,913	394,363	338,562	319,065	385,707
Balancing Energy LSE Internal LBMP Energy Sales	58%	35%	52%	72%	48%	39%	53%	-146%	65%	53%	26%	43%
Balancing Energy External TC LBMP Energy Sales	58%	80%	95%	73%	69%	78%	79%	242%	44%	61%	77%	68%
Balancing Energy Bilateral - Internal Bilaterals	-6%	-10%	-2%	0%	-5%	5%	-2%	-75%	1%	3%	0%	-2%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	4%	1%	1%	1%	1%	0%	0%	2%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	-38%	0%	0%	0%	0%	-14%	0%	0%	0%	0%
Balancing Energy Bilateral - Wheel Through Bilaterals	-14%	-7%	-8%	-46%	-14%	-23%	-31%	-109%	-10%	-16%	-3%	-9%
Transactions Summary												
LBMP	49%	50%	49%	52%	49%	52%	56%	58%	51%	52%	51%	52%
Internal Bilaterals	48%	47%	48%	45%	48%	46%	42%	40%	46%	46%	47%	45%
Import Bilaterals	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
Export Bilaterals	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Wheels Through	1%	1%	1%	1%	1%	1%	1%	1%	0%	1%	1%	2%
Market Share of Total Load												
Day Ahead Market	97.6%	97.8%	97.2%	98.1%	97.7%	97.9%	98.7%	100.4%	97.1%	97.4%	97.5%	97.3%
Balancing Energy †	2.4%	2.2%	2.8%	1.9%	2.3%	2.1%	1.3%	-0.4% *	2.9%	2.6%	2.5%	2.7%
Total MWH	14,535,291	12,981,249	13,502,785	12,233,455	12,308,392	13,633,350	15,652,999	15,703,169	13,397,672	12,846,342	12,651,521	14,358,973
Average Daily Energy Sendout/Month GWh	458	450	418	393	382	432	497	498	433	397	402	435

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

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

Notes: Percent totals may not equal 100% due to rounding.

Virtual Transactions are not reflected in this chart.

NYISO Markets 2004 Energy Statistics

	January	February	March	April	May	June	July	August	September	October	November	December
<u>DAY AHEAD LBMP</u>												
Price *	\$72.12	\$55.31	\$49.08	\$51.01	\$57.25	\$55.03	\$55.33					
Standard Deviation	\$25.99	\$14.40	\$10.90	\$11.42	\$16.72	\$17.82	\$12.68					
Load Wtg.Price **	\$75.01	\$56.90	\$50.44	\$52.50	\$59.89	\$58.29	\$57.32					
<u>BME *** LBMP</u>												
Price *	\$77.51	\$54.41	\$53.01	\$56.94	\$60.98	\$59.15	\$60.43					
Standard Deviation	\$37.54	\$15.73	\$16.25	\$18.41	\$23.58	\$24.50	\$20.60					
Load Wtg.Price **	\$80.51	\$55.89	\$54.71	\$58.89	\$64.14	\$63.17	\$62.81					
<u>REAL TIME LBMP</u>												
Price *	\$73.72	\$52.95	\$49.56	\$50.83	\$56.20	\$54.03	\$55.08					
Standard Deviation	\$32.61	\$15.04	\$17.75	\$14.15	\$25.74	\$23.42	\$17.07					
Load Wtg.Price **	\$76.85	\$54.33	\$51.27	\$52.36	\$59.61	\$58.01	\$57.44					
Average Daily Energy Sendout/Month GWh	464	440	416	393	408	451	481					

NYISO Markets 2003 Energy Statistics

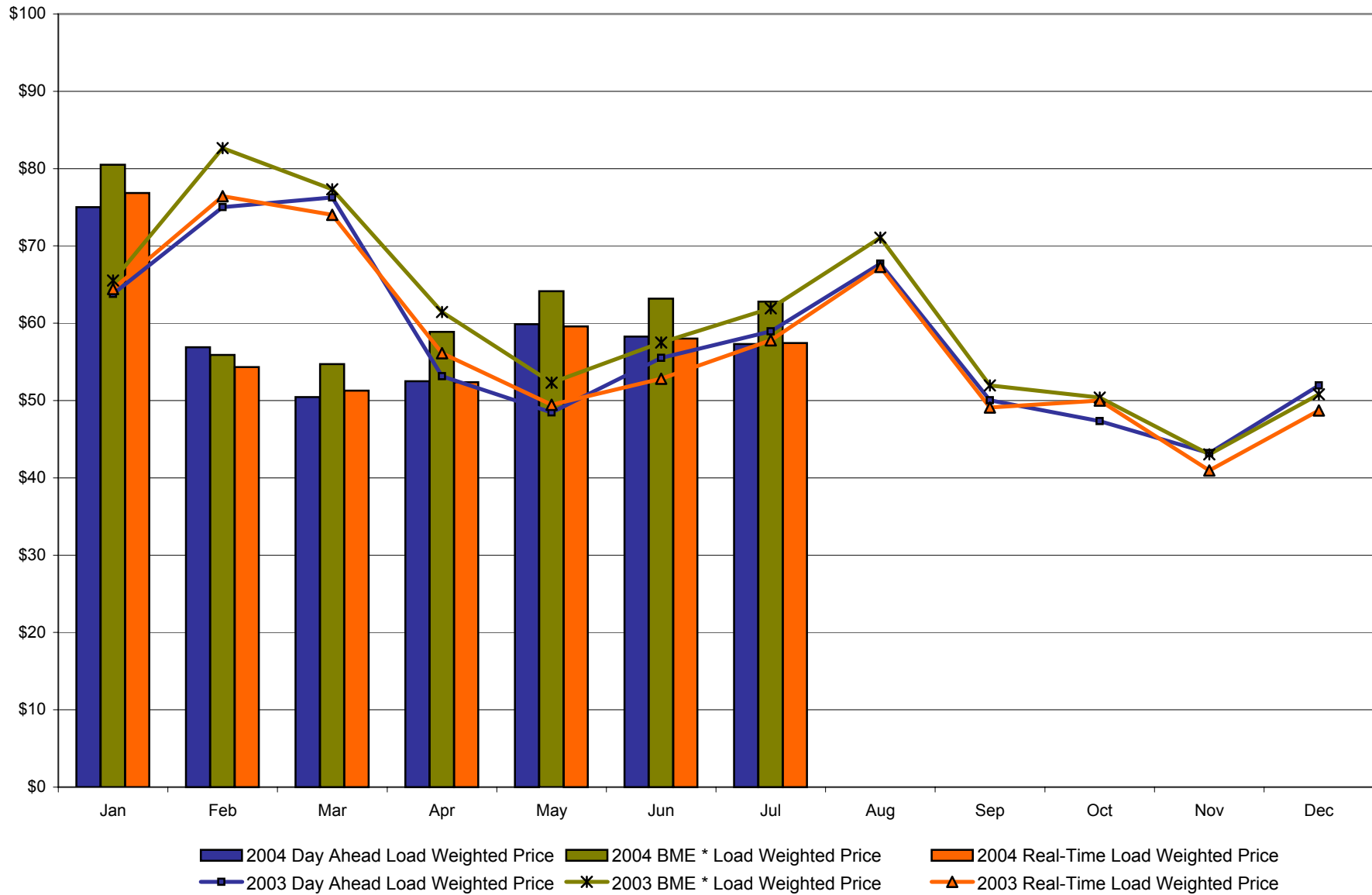
	January	February	March	April	May	June	July	August	September	October	November	December
<u>DAY AHEAD LBMP</u>												
Price *	\$61.33	\$72.81	\$73.18	\$51.58	\$46.43	\$51.45	\$57.10	\$64.94	\$48.29	\$45.81	\$41.58	\$50.07
Standard Deviation	\$20.09	\$21.12	\$29.70	\$12.47	\$14.03	\$21.27	\$11.88	\$18.06	\$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
<u>BME *** LBMP</u>												
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
<u>REAL TIME LBMP</u>												
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

* Average zonal load weighted prices

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

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

**NYISO Monthly Average Internal LBMPs
2003 - 2004**



* Commonly referred to as Hour Ahead Market (HAM)

4-F

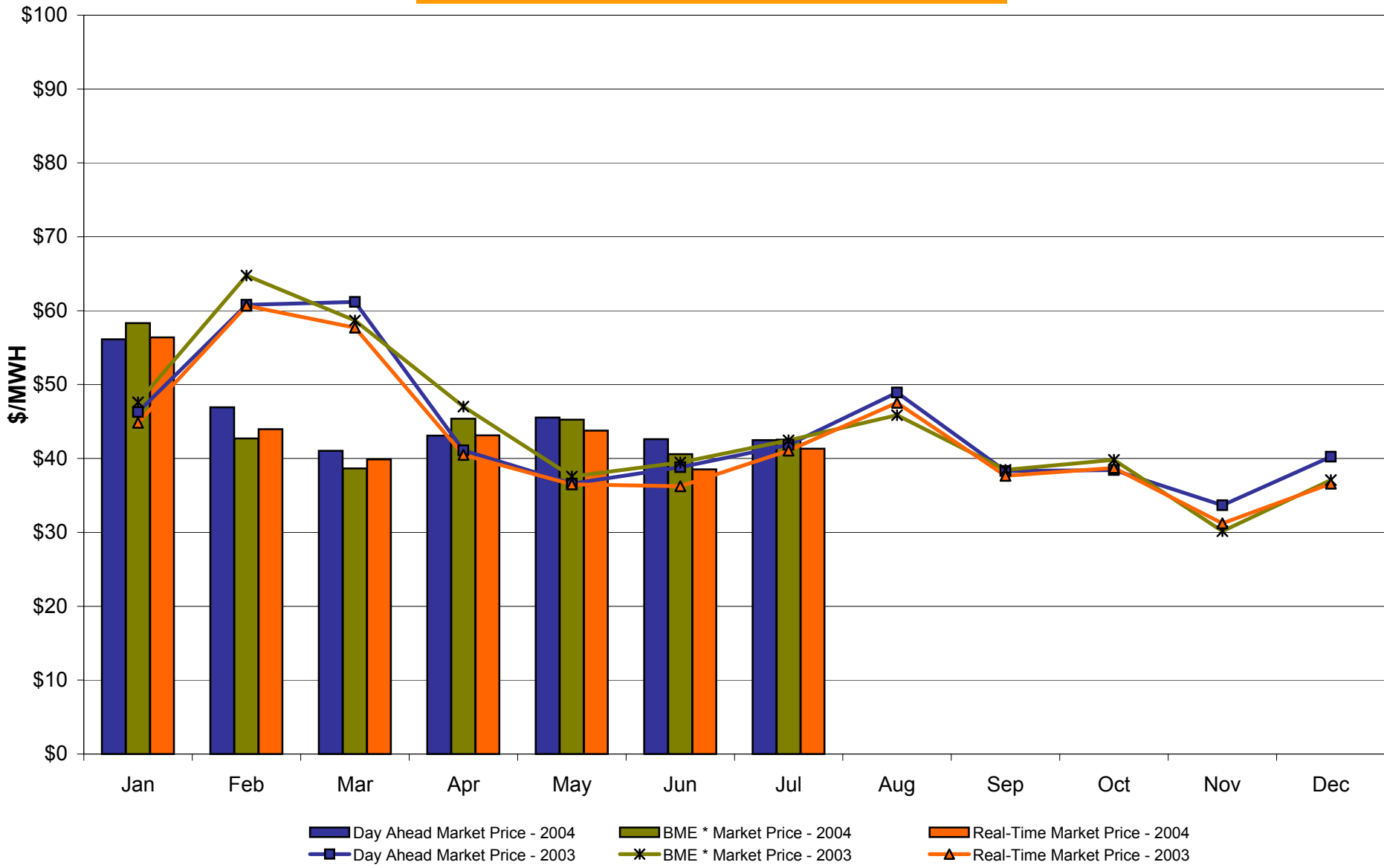
July 2004 Zonal Statistics for NYISO (\$/MWH)

	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
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	42.49	45.25	45.42	45.78	47.67	51.23	51.83	53.04	53.91	62.46	65.16
Standard Deviation	10.16	10.24	9.52	10.33	10.45	11.53	12.25	13.20	13.38	16.18	12.70
<u>BME ** LBMP</u>											
Unweighted Price *	42.56	44.00	46.67	47.40	48.73	50.08	51.26	51.87	52.63	75.52	69.54
Standard Deviation	12.75	12.86	12.19	13.32	13.32	13.58	13.88	18.36	18.57	27.33	66.35
<u>REAL TIME LBMP</u>											
Unweighted Price *	41.31	43.59	44.33	43.80	45.72	45.72	48.31	49.97	50.89	63.79	67.07
Standard Deviation	14.04	14.38	14.68	14.67	15.15	15.51	15.83	19.82	20.30	22.25	23.05
	ONTARIO IMO Zone O	HYDRO QUEBEC Zone M	PJM Zone P	NEW ENGLAND Zone N							
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	41.73	46.11	44.61	51.52							
Standard Deviation	9.71	9.73	11.84	11.83							
<u>BME ** LBMP</u>											
Unweighted Price *	41.20	46.60	46.45	50.59							
Standard Deviation	12.74	12.32	15.75	13.86							
<u>REAL TIME LBMP</u>											
Unweighted Price *	41.39	44.30	43.20	48.05							
Standard Deviation	14.41	14.55	15.55	15.29							

* Straight zonal LBMP averages

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

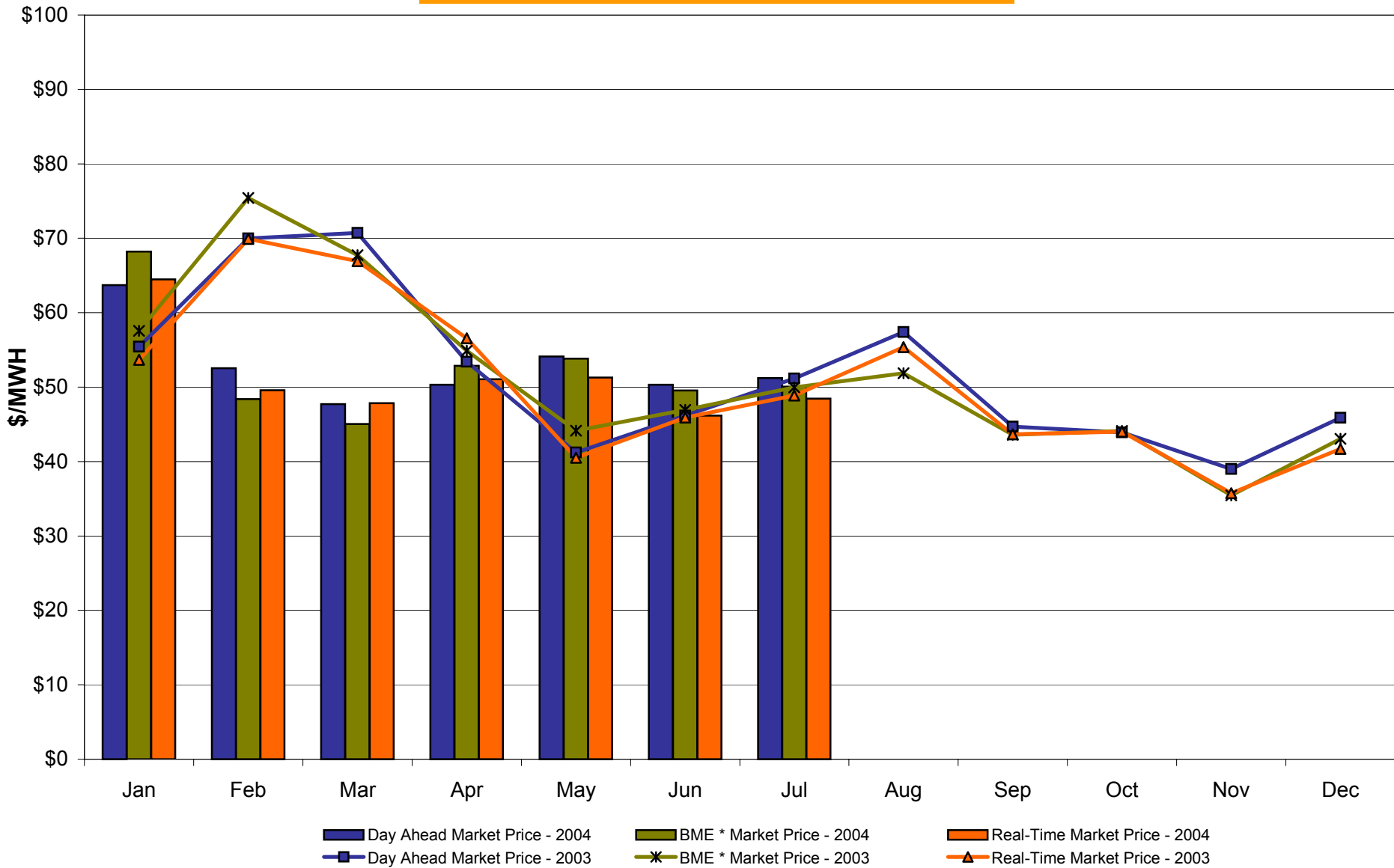
West Zone A Monthly Average LBMP Prices 2003 - 2004



4-H

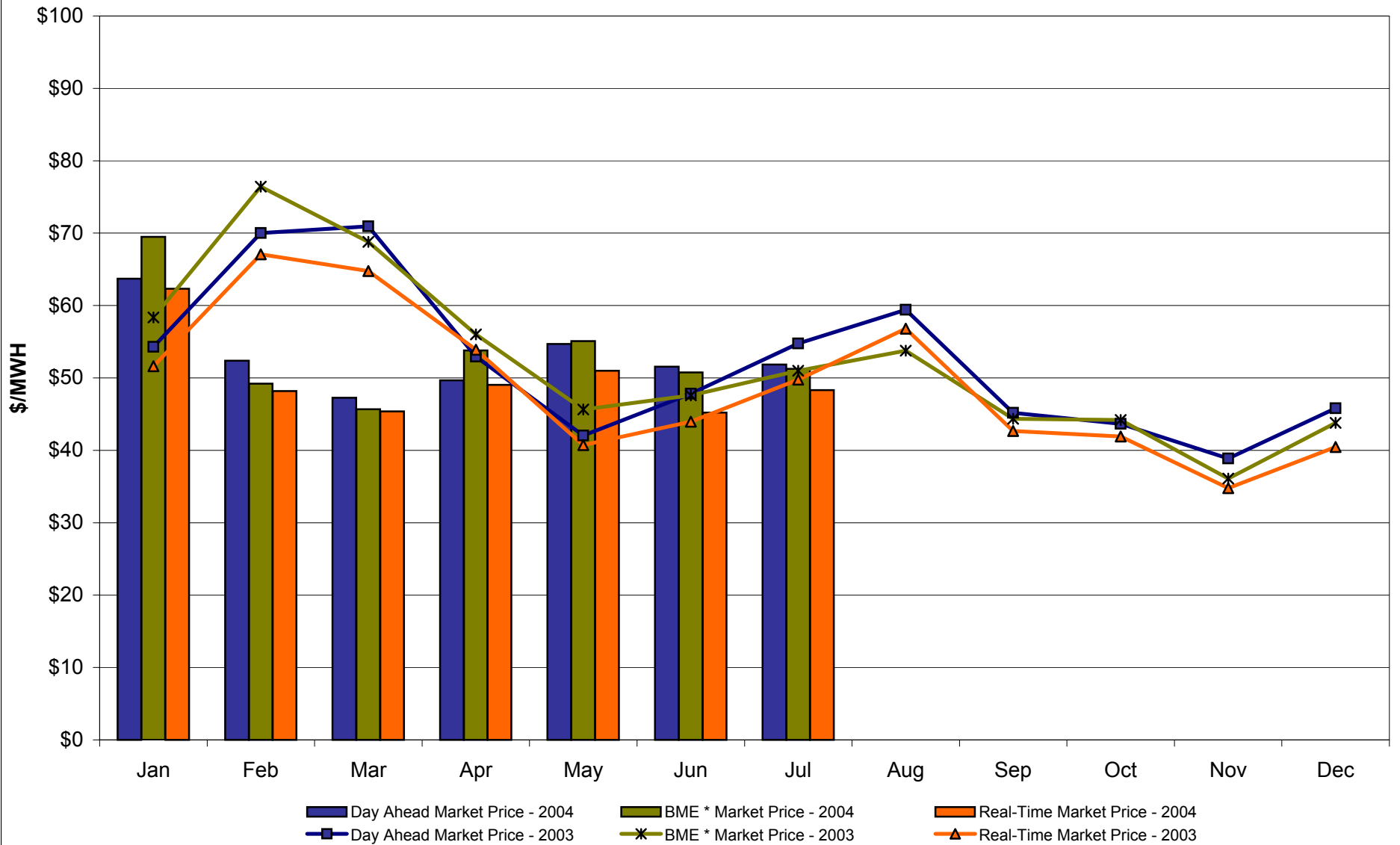
* Commonly referred to as Hour Ahead Market (HAM)

Capital Zone F Monthly Average LBMP Prices 2003 - 2004



* Commonly referred to as Hour Ahead Market (HAM)

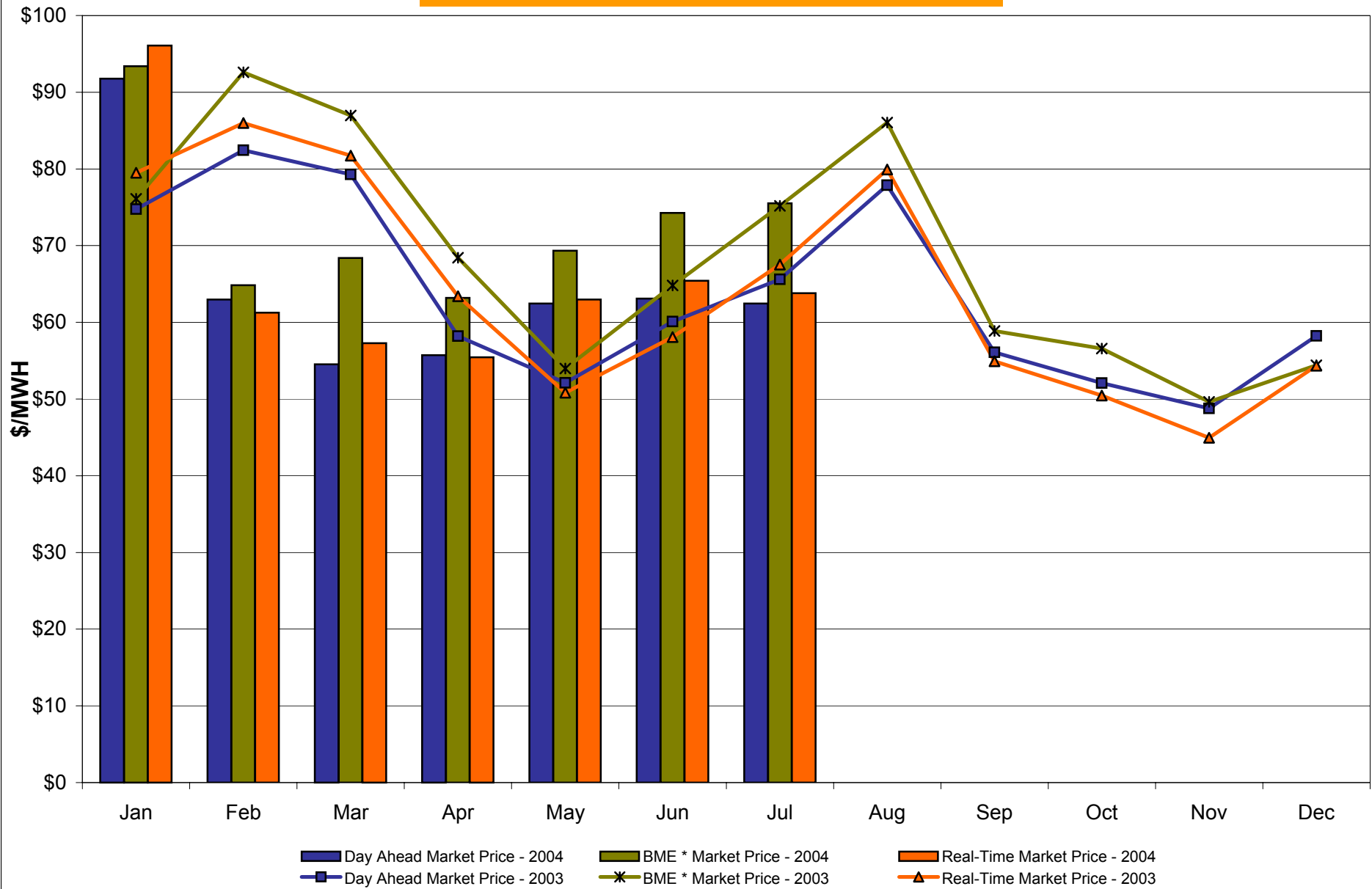
Hudson Valley Zone G Monthly Average LBMP Prices 2003 - 2004



* Commonly referred to as Hour Ahead Market (HAM)

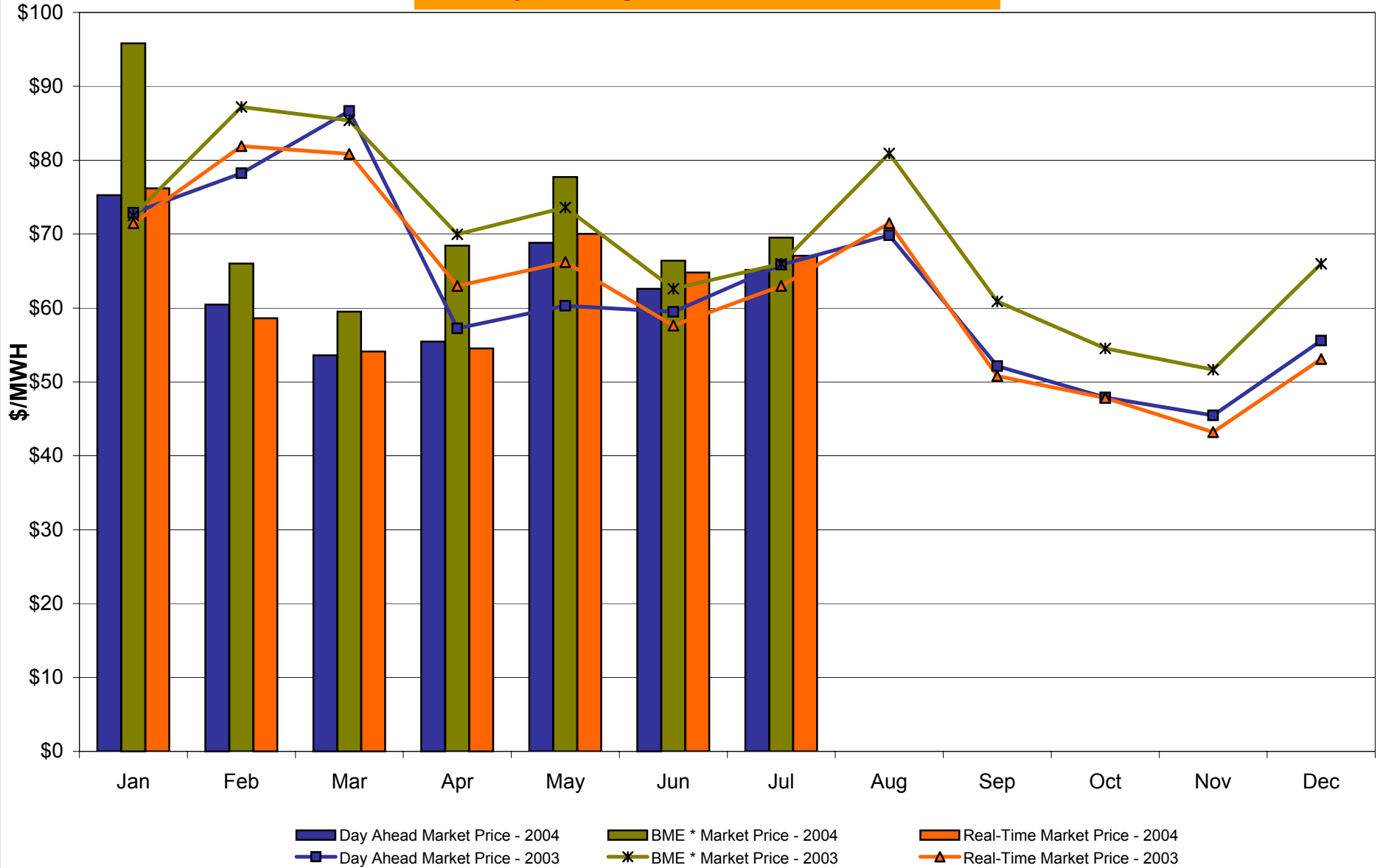
4-J

NYC Zone J Monthly Average LBMP Prices 2003 - 2004



* Commonly referred to as Hour Ahead Market (HAM)

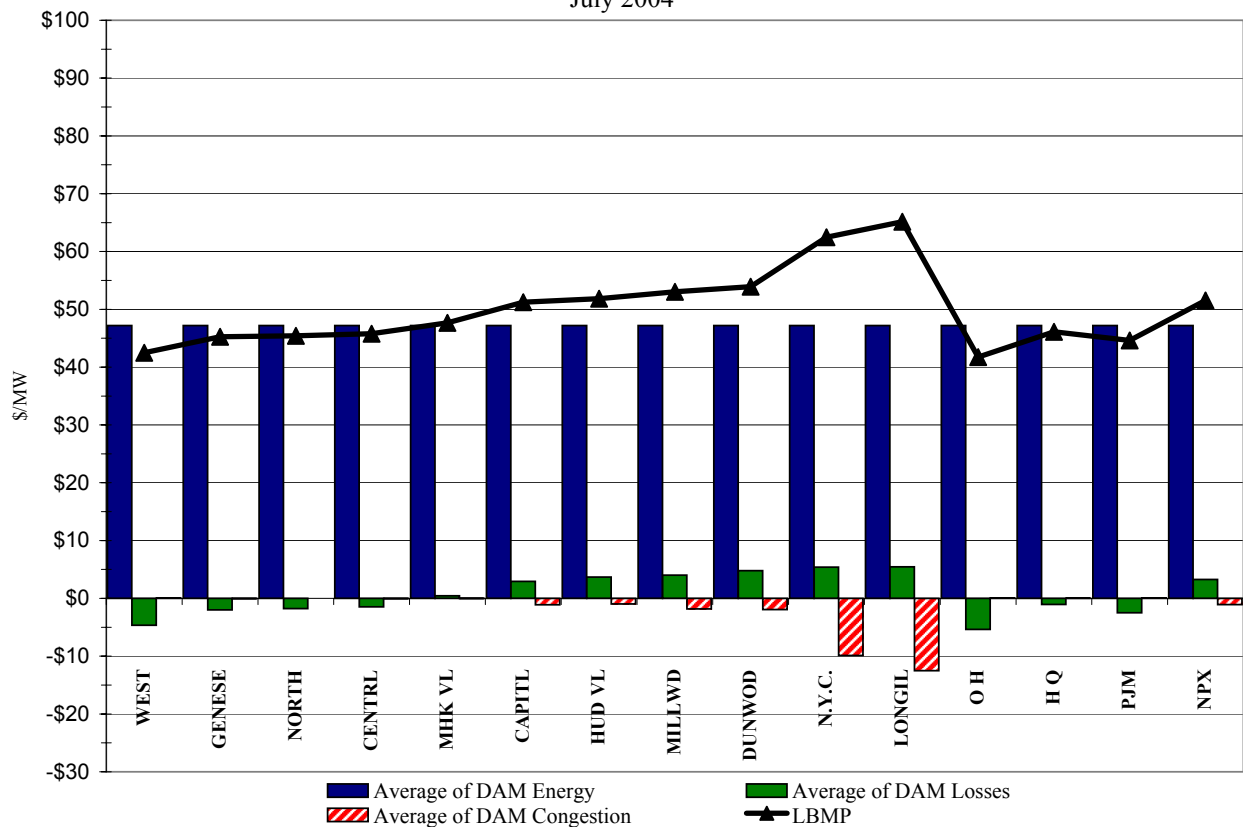
Long Island Zone K Monthly Average LBMP Prices 2003 - 2004



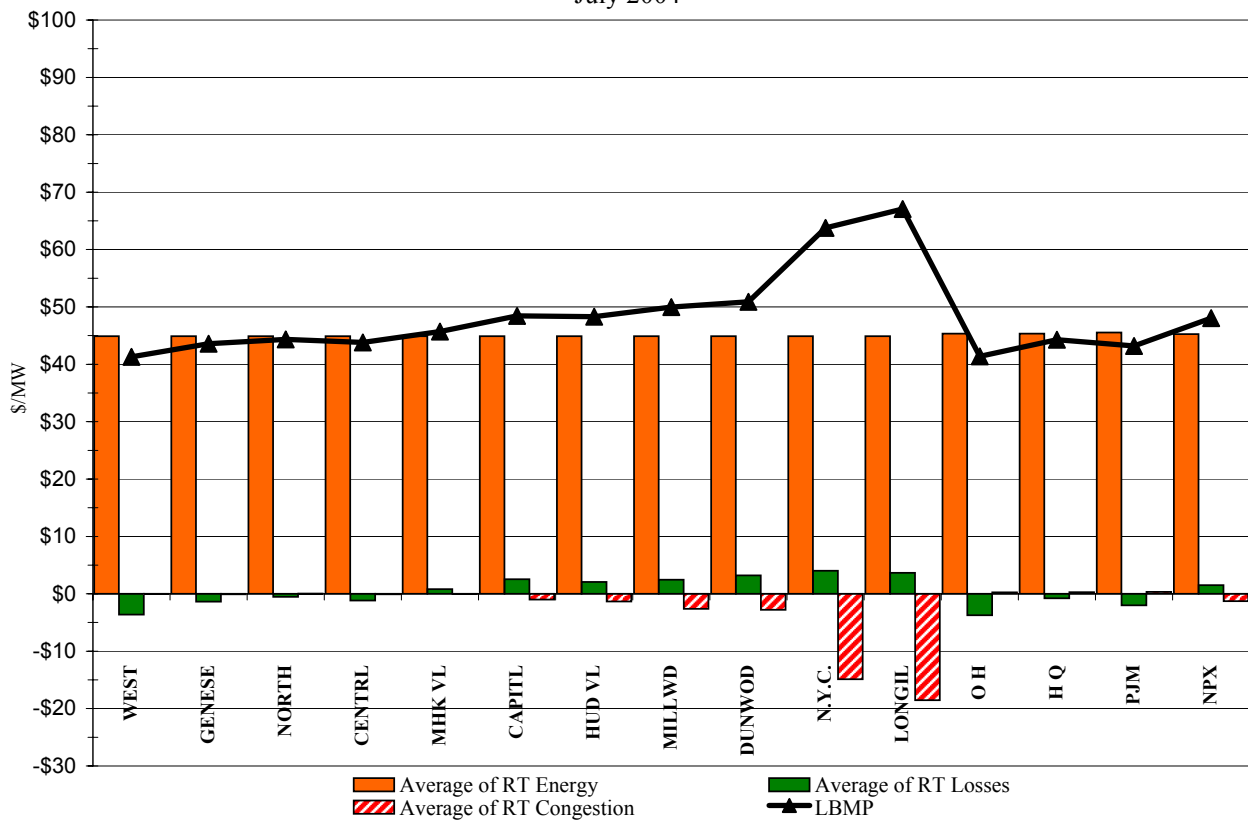
4-L

* Commonly referred to as Hour Ahead Market (HAM)

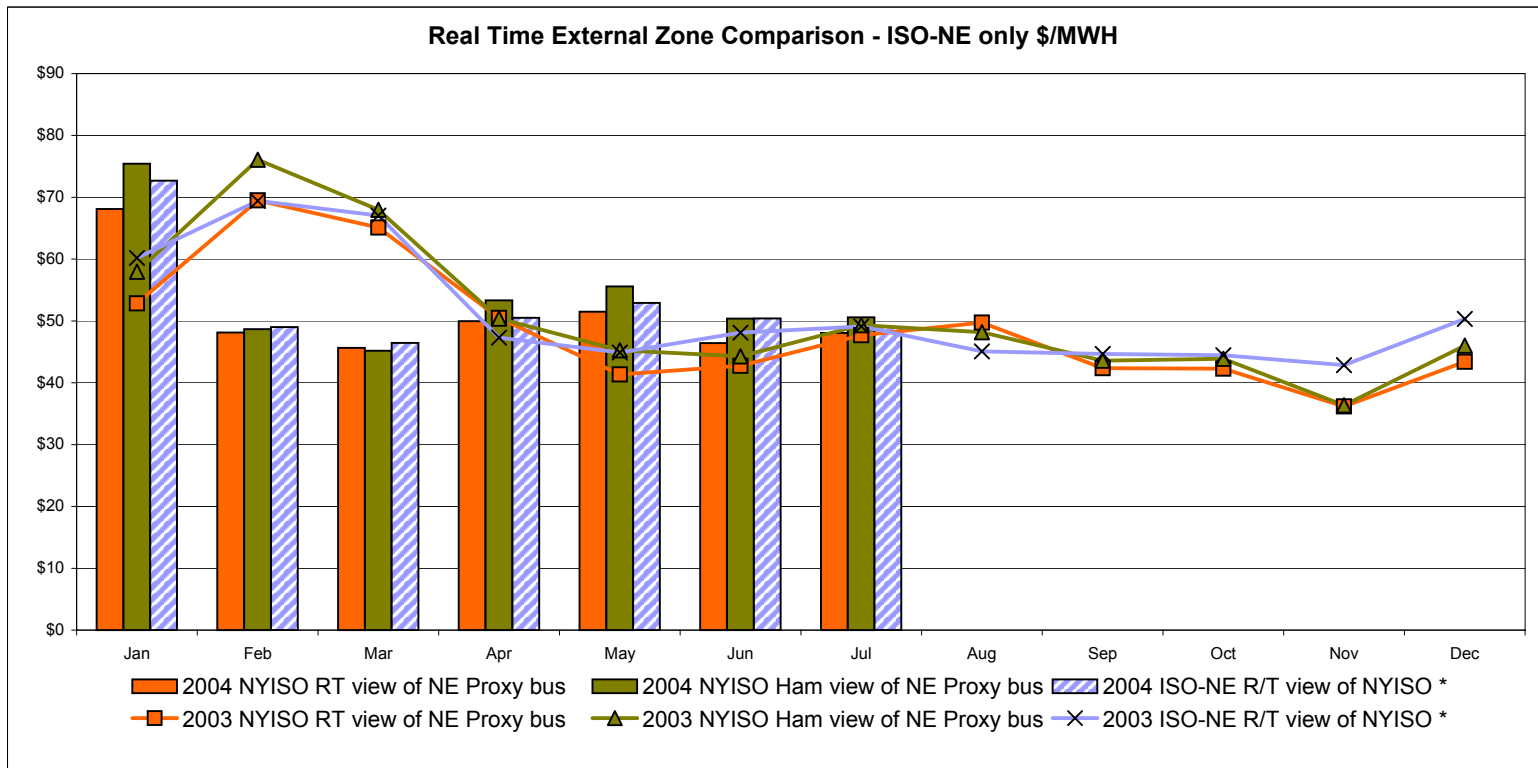
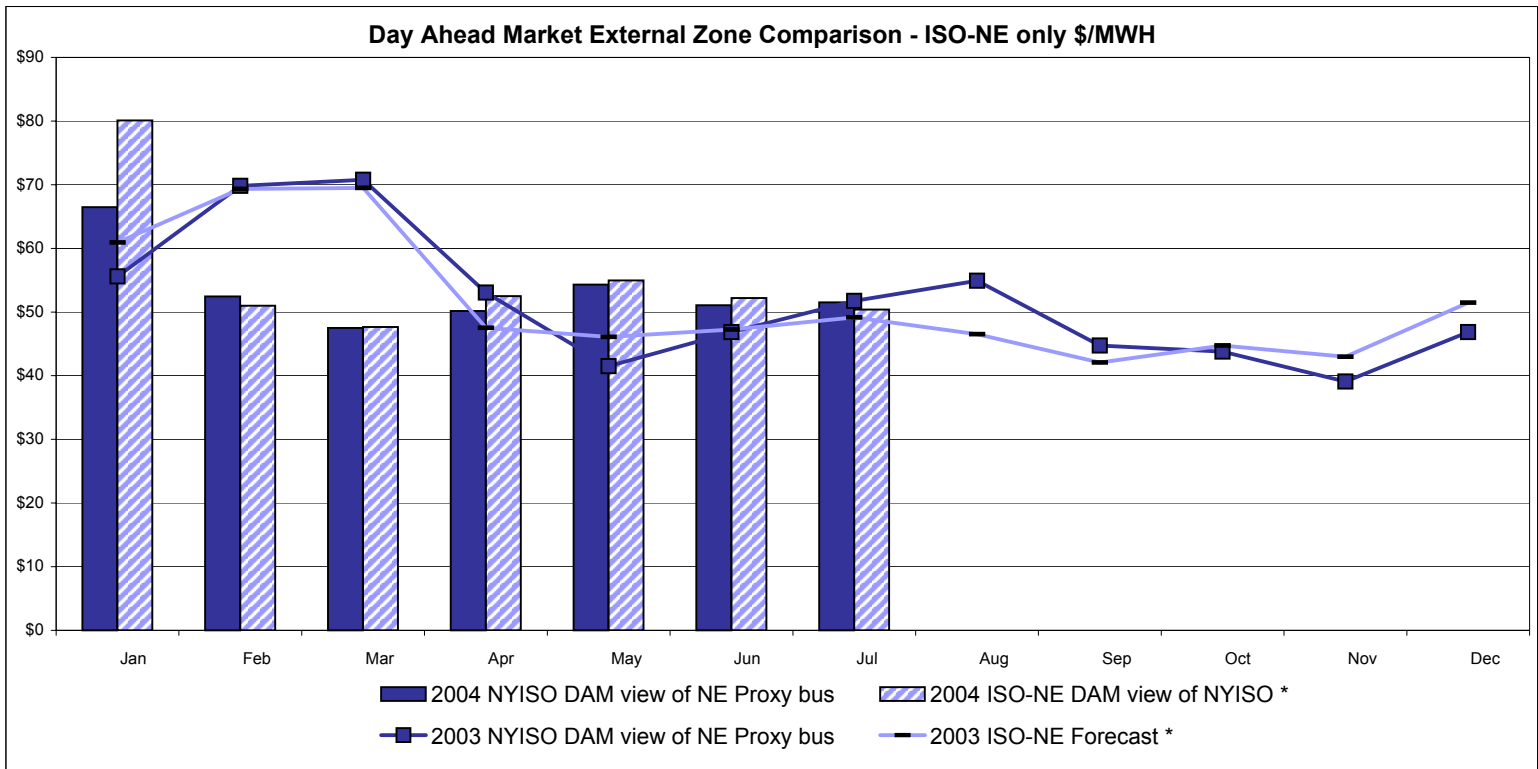
DAM Zonal Unweighted Monthly Average LBMP Components
July 2004



RT Zonal Unweighted Monthly Average LBMP Components
July 2004



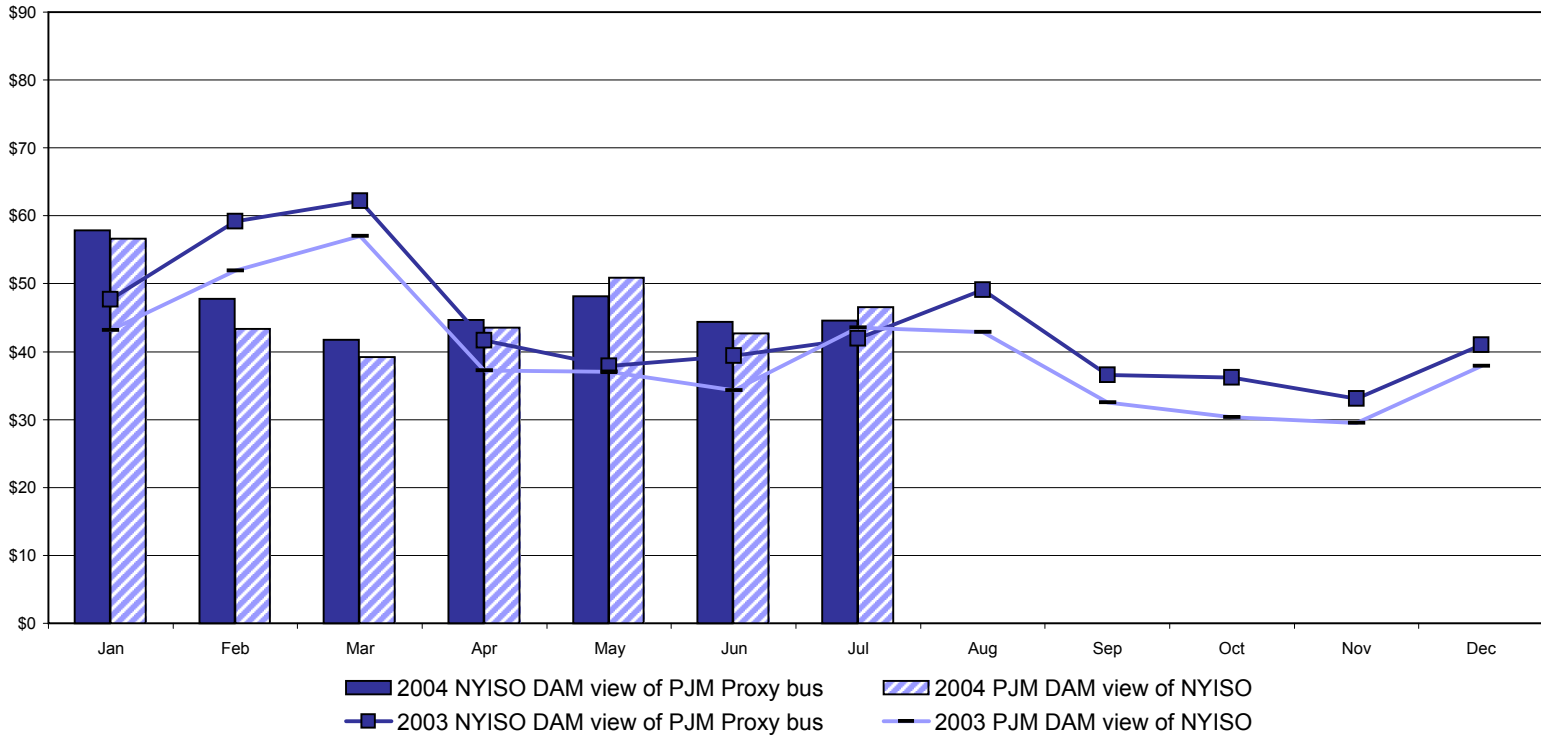
External Comparison ISO-NE



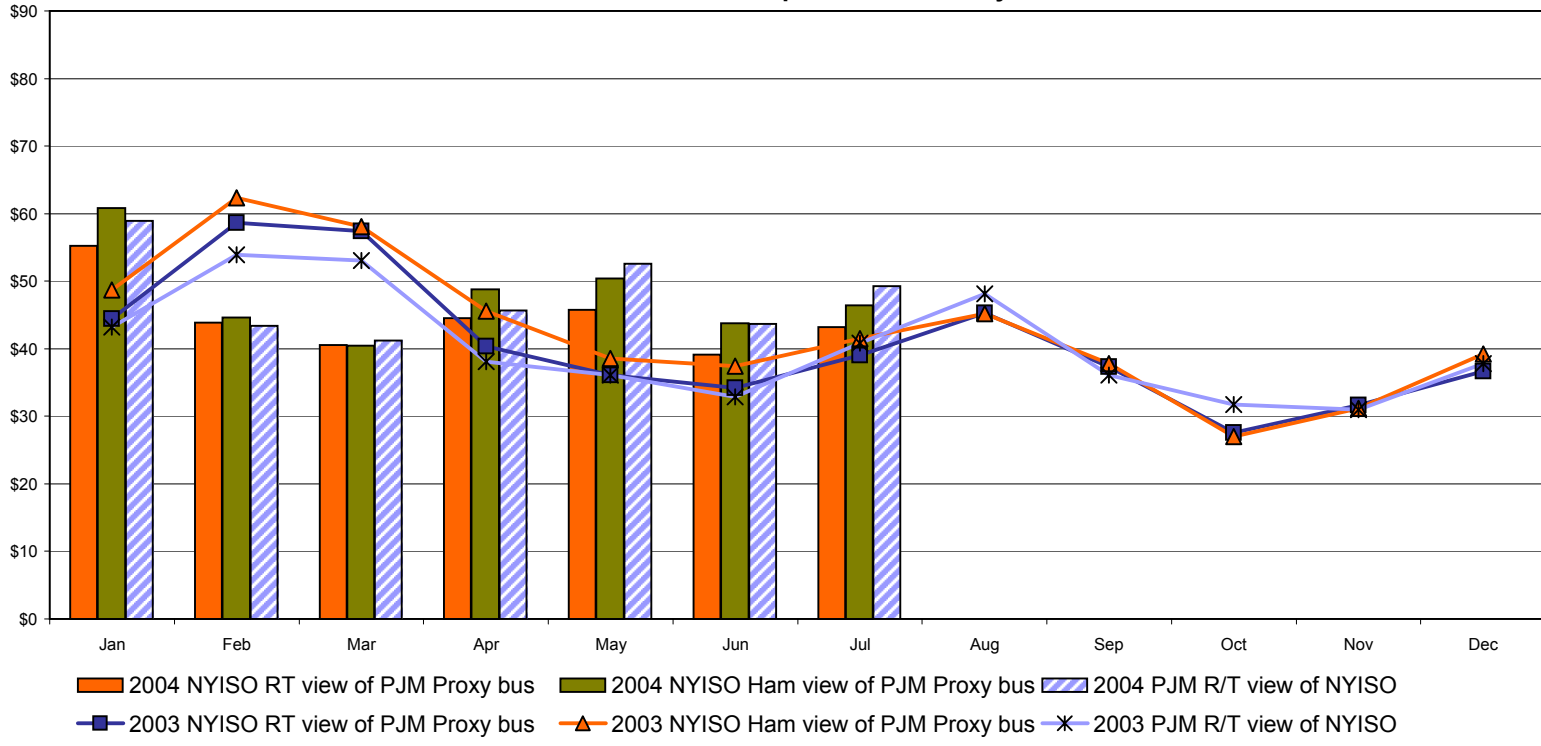
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before
 * Effective 3/1/2003 SMD implemented by ISO-NE. The DAM and R/T prices at the Roseton interface are now used.

External Comparison PJM

Day Ahead Market External Zone Comparison - PJM only \$/MWH

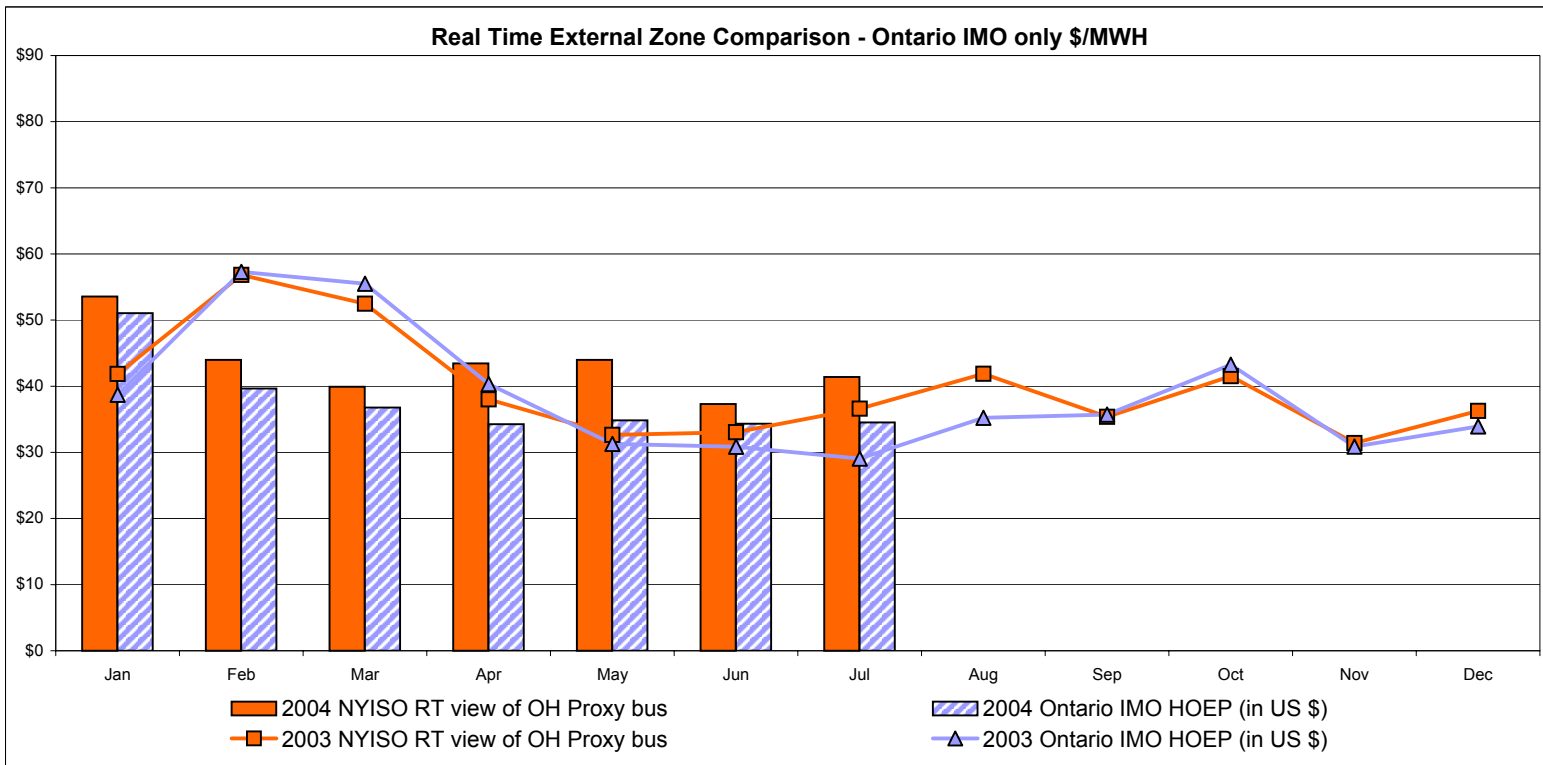
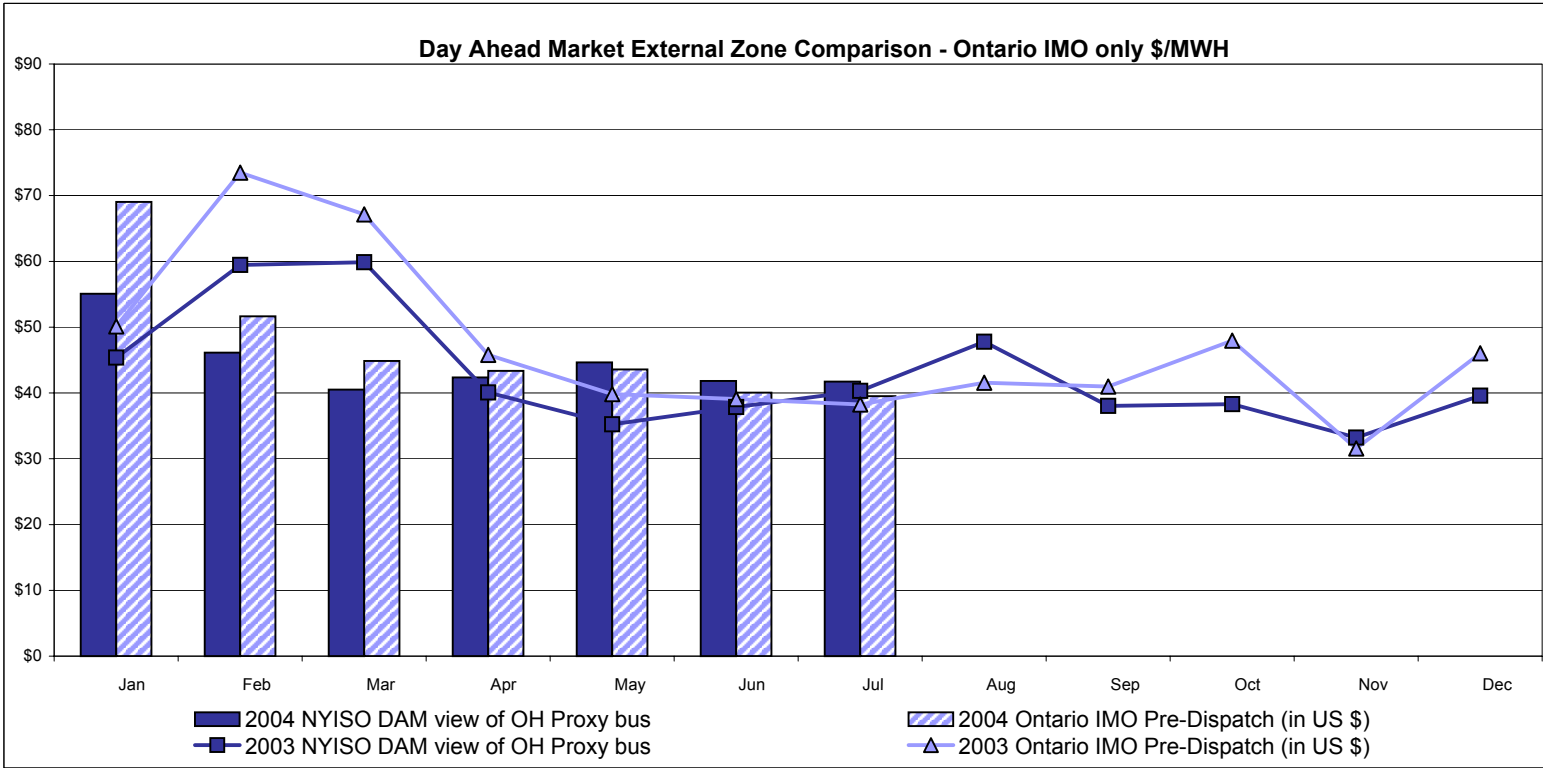


Real Time External Zone Comparison - PJM only \$/MWH



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

External Comparison Ontario IMO



Notes: Exchange factor used for July 2004 was .76 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

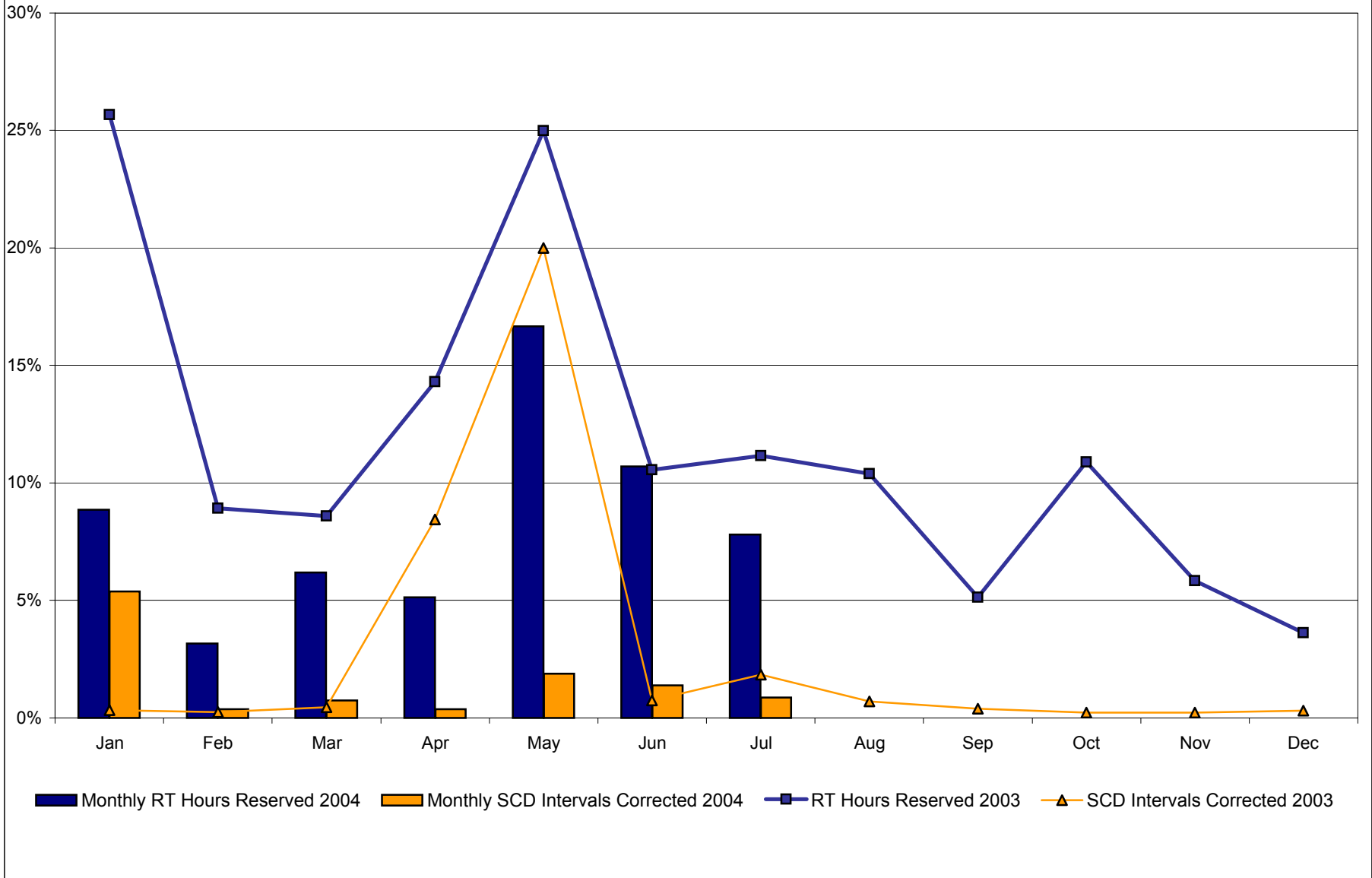
<u>Interval Corrections</u>	January	February	March	April	May	June	July	August	September	October	November	December
Number of Intervals corrected in the month	597	40	83	40	220	156	100					
Number of Intervals in the month	11,089	10,495	11,085	10,805	11,740	11,234	11,467					
Percentage of intervals corrected in the month	5.38%	0.38%	0.75%	0.37%	1.87%	1.39%	0.87%					
Number of Intervals corrected Year-to-date	597	637	720	760	980	1,136	1,236					
Number of Intervals Year-to-date	11,089	21,584	32,669	43,474	55,214	66,448	77,915					
Percentage of intervals corrected Year-to-date	5.38%	2.95%	2.20%	1.75%	1.77%	1.71%	1.59%					
<u>Hours Reserved</u>												
Number of hours reserved in the month	66	22	46	37	124	77	58					
Number of hours in the month	744	696	744	720	744	720	744					
Percentage of hours reserved in the month	8.87%	3.16%	6.18%	5.14%	16.67%	10.69%	7.80%					
Number of hours reserved Year-to-date	66	88	134	171	295	372	430					
Number of hours Year-to-date	744	1,440	2,184	2,904	3,648	4,368	5,112					
Percentage of hours reserved Year-to-date	8.87%	6.11%	6.14%	5.89%	8.09%	8.52%	8.41%					
<u>Days Without Corrections</u>												
Days without price corrections in the month	14	20	11	9	8	6	9					
Days without price corrections Year-to-date	14	34	45	54	62	68	77					

NYISO Price Corrections 2003

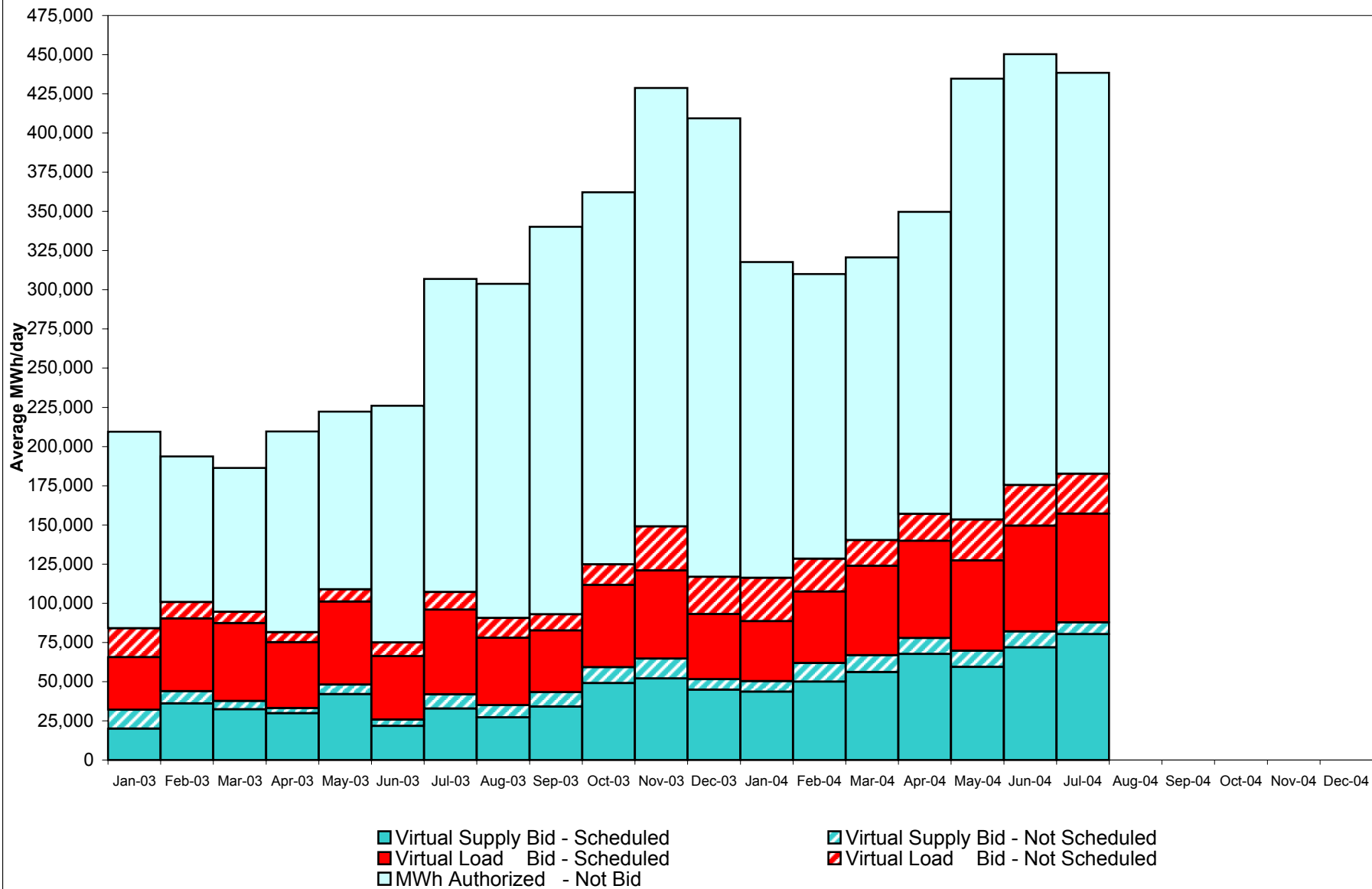
<u>Interval Corrections</u>	January	February	March	April	May	June	July	August	September	October	November	December
Number of Intervals corrected in the month	36	25	49	891	2,254	79	202	71	41	25	25	34
Number of Intervals in the month	10,986	10,197	10,918	10,554	11,274	10,729	10,998	9,973	10,620	11,248	10,629	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%
<u>Hours Reserved</u>												
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 *	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%
<u>Days Without Corrections</u>												
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

* 80 hours not included due to suspended market during system disruption

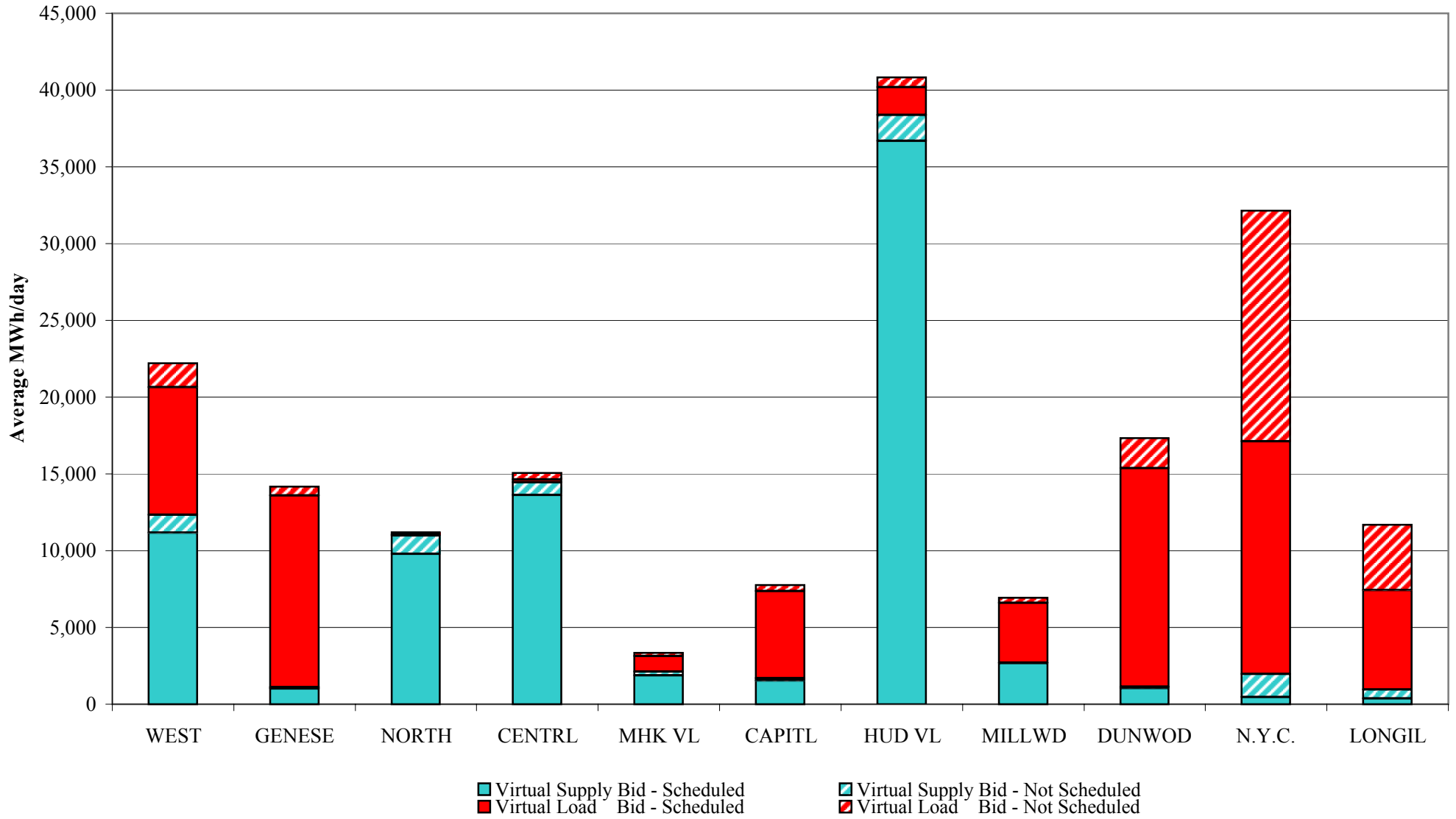
Percentage of Real-Time Corrections



NYISO Virtual Trading Average MWh per day

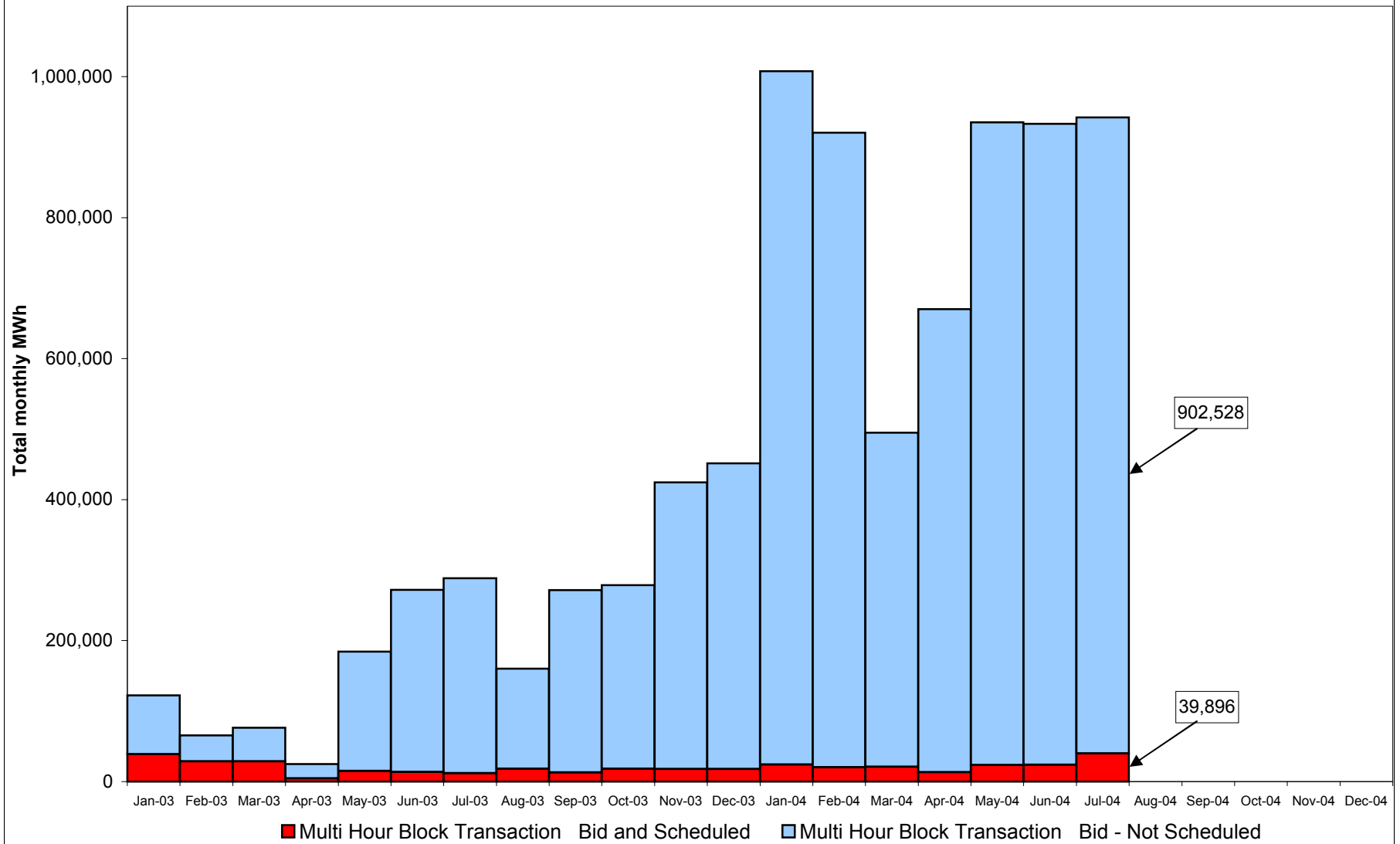


Virtual Load and Supply Zonal Statistics July 2004

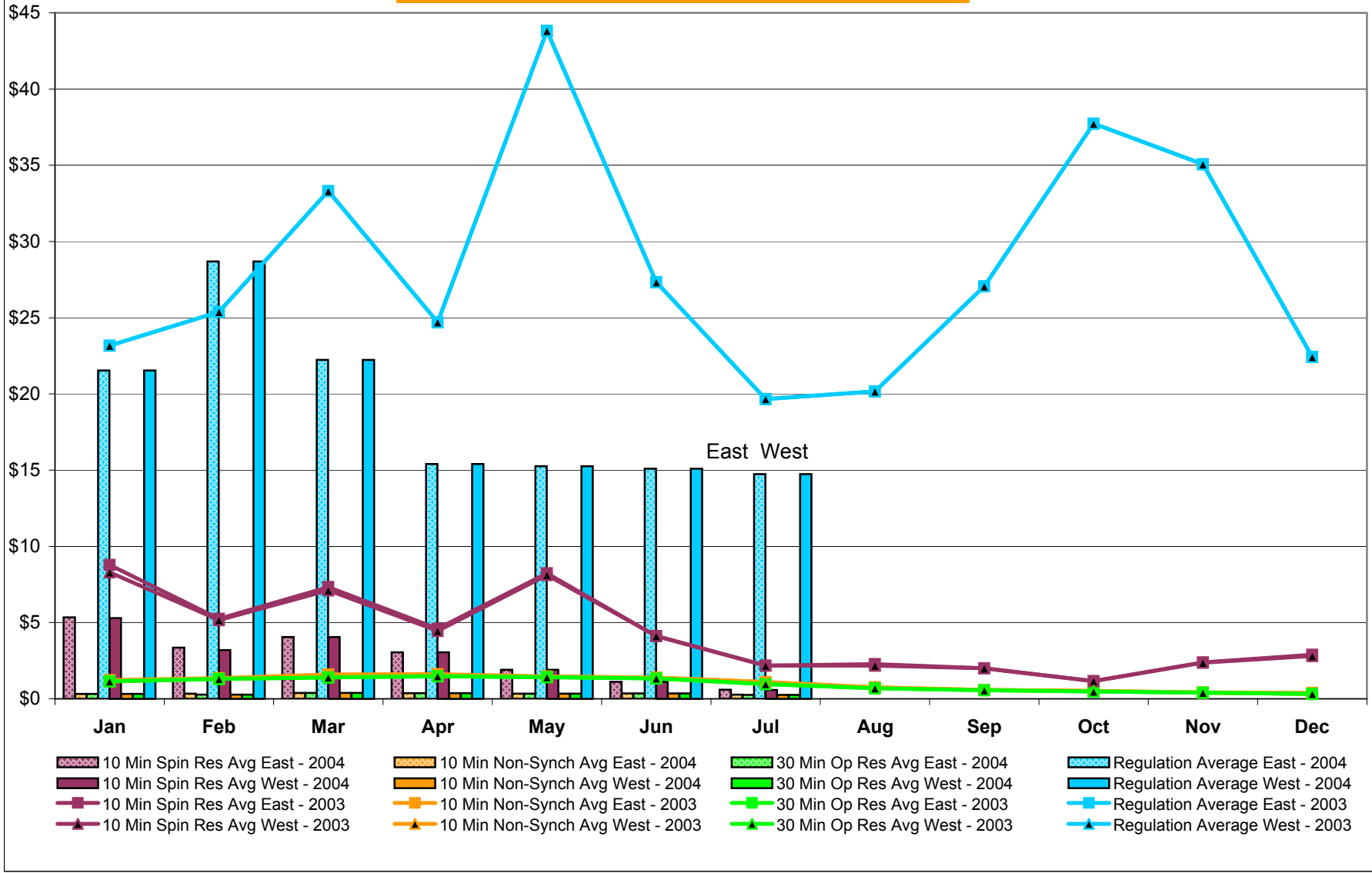


4-T

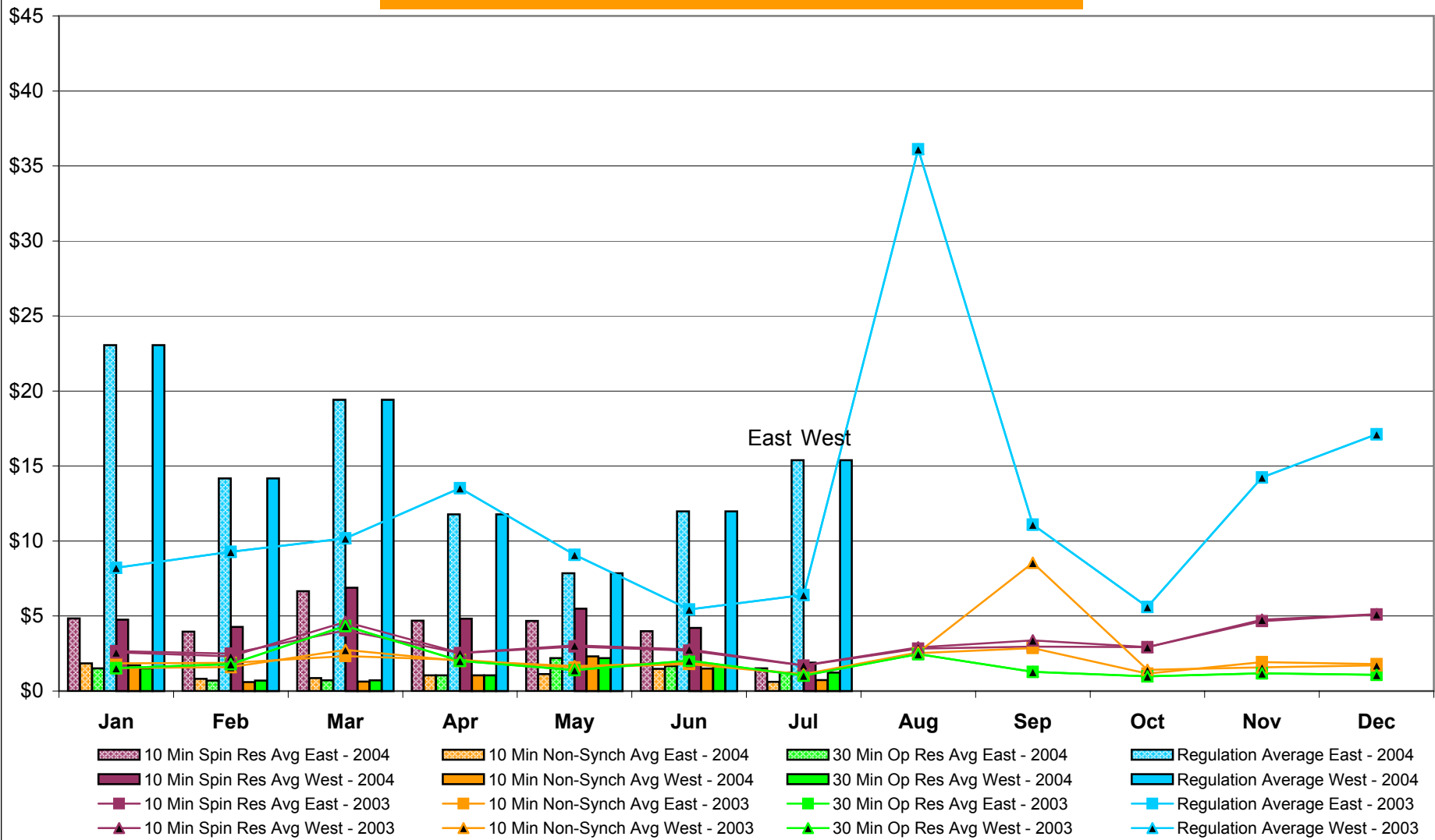
NYISO Multi Hour Block Transactions Monthly Total MWh



NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2003 - 2004



NYISO Monthly Average Ancillary Service Prices BME * 2003 - 2004



* 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 Unweighted Price (\$/MWH) 2004

Day Ahead Market

10 Min Spin East	5.35	3.36	4.05	3.04	1.91	1.11	0.60					
10 Min Spin West	5.29	3.20	4.05	3.04	1.90	1.11	0.58					
10 Min Non Synch East	0.33	0.33	0.39	0.38	0.34	0.35	0.27					
10 Min Non Synch West	0.32	0.27	0.39	0.38	0.33	0.35	0.26					
30 Min East	0.32	0.27	0.39	0.38	0.33	0.35	0.26					
30 Min West	0.32	0.27	0.39	0.38	0.33	0.35	0.26					
Regulation East	21.54	28.69	22.23	15.41	15.26	15.10	14.74					
Regulation West	21.54	28.69	22.23	15.41	15.26	15.10	14.74					

BME* Market

10 Min Spin East	4.84	3.96	6.65	4.69	4.67	3.99	1.51					
10 Min Spin West	4.75	4.27	6.89	4.82	5.48	4.20	1.90					
10 Min Non Synch East	1.85	0.81	0.87	1.05	1.14	1.49	0.62					
10 Min Non Synch West	1.71	0.60	0.64	1.06	2.31	1.49	0.73					
30 Min East	1.51	0.70	0.72	1.06	2.20	1.67	1.23					
30 Min West	1.51	0.70	0.72	1.06	2.20	1.67	1.23					
Regulation East	23.07	14.18	19.41	11.78	7.85	11.98	15.38					
Regulation West	23.07	14.18	19.41	11.78	7.85	11.98	15.38					

ANCILLARY SERVICES Unweighted Price (\$/MWH) 2003

Day Ahead Market

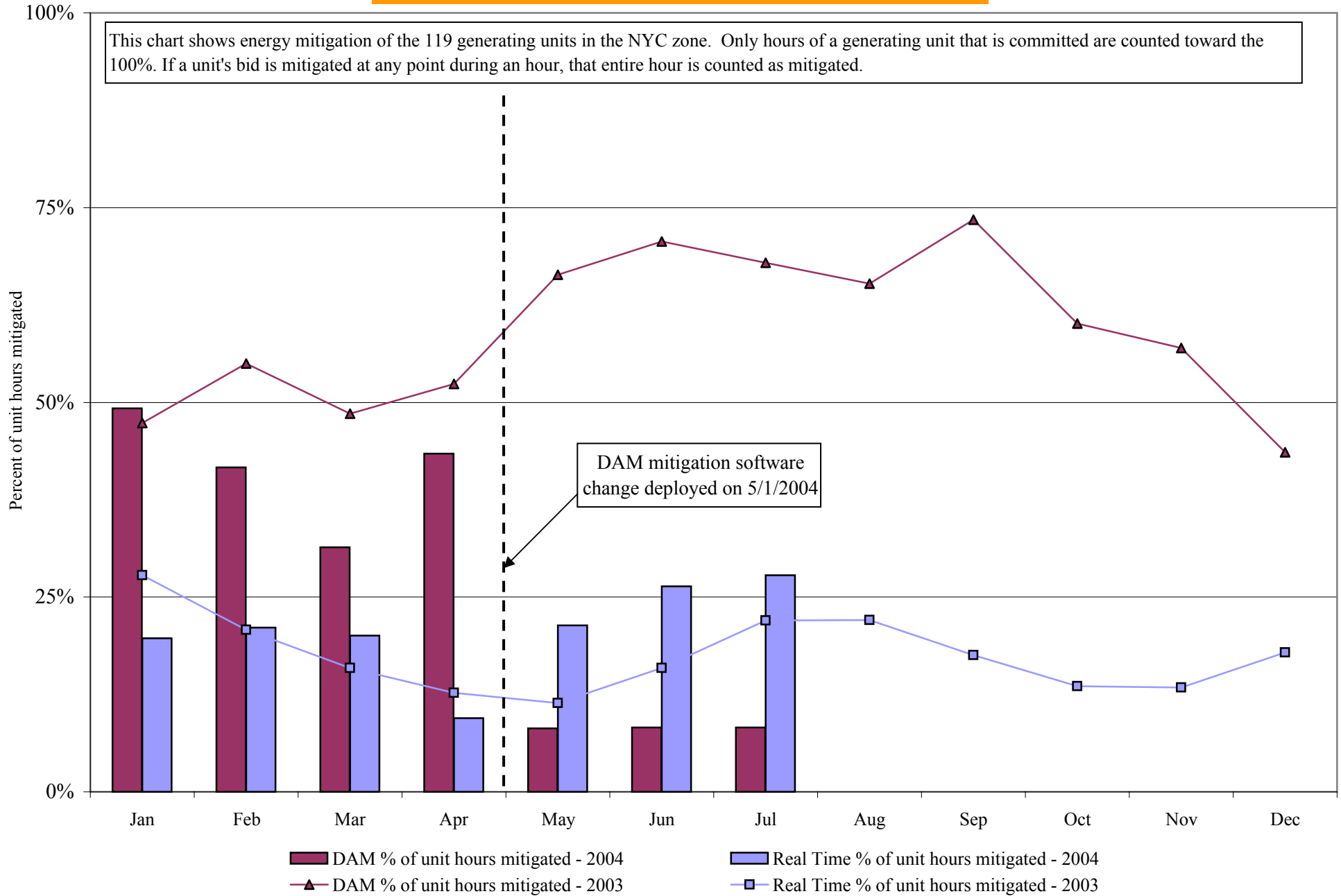
10 Min Spin East	8.78	5.24	7.33	4.60	8.24	4.12	2.18	2.28	2.01	1.17	2.39	2.89
10 Min Spin West	8.30	5.17	7.12	4.45	8.12	4.11	2.18	2.18	2.00	1.17	2.37	2.81
10 Min Non Synch East	1.22	1.36	1.60	1.61	1.48	1.40	1.09	0.76	0.58	0.52	0.41	0.38
10 Min Non Synch West	1.15	1.32	1.45	1.54	1.45	1.39	1.09	0.72	0.58	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

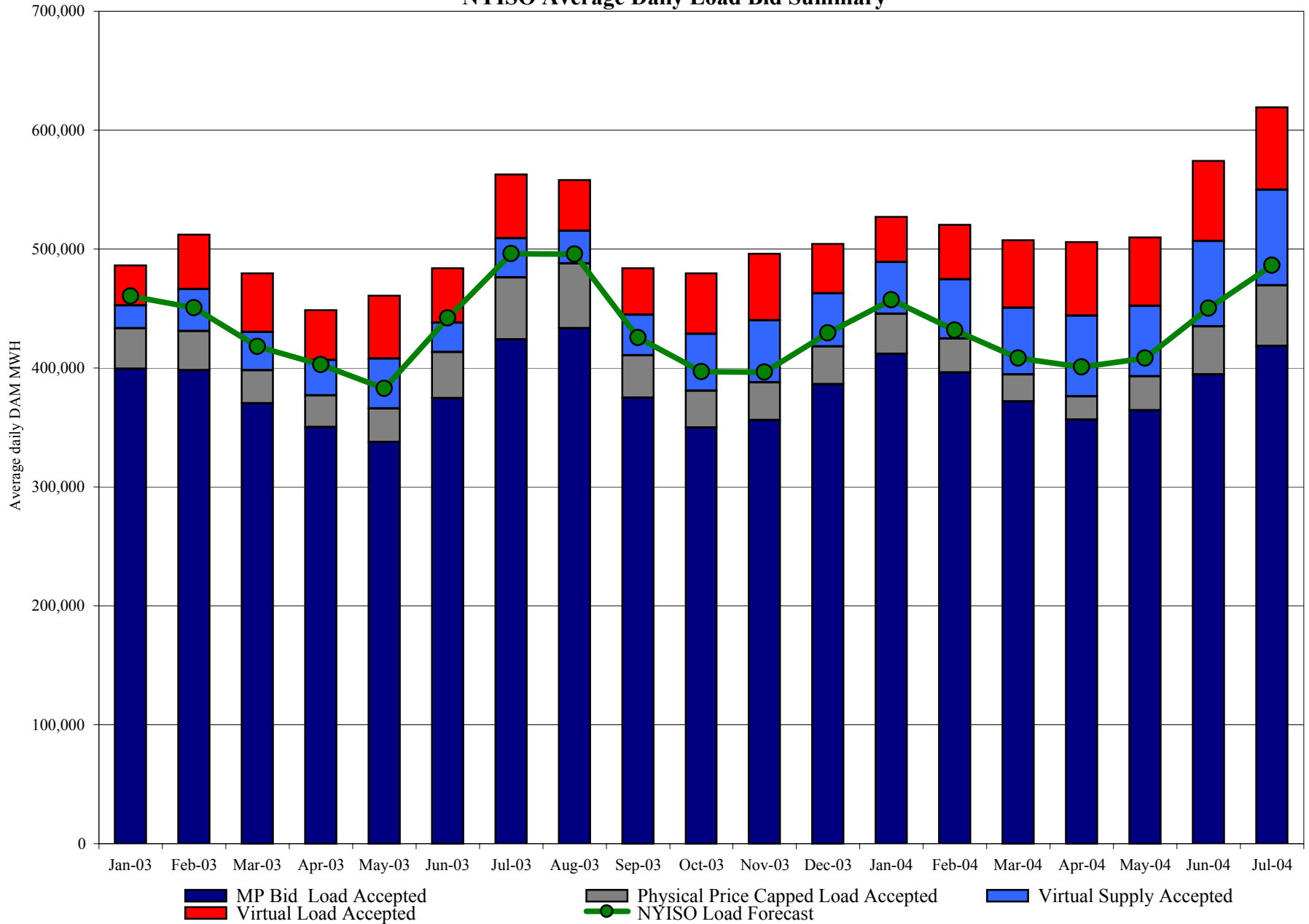
* Commonly Referred to as Hour Ahead Market (HAM)

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

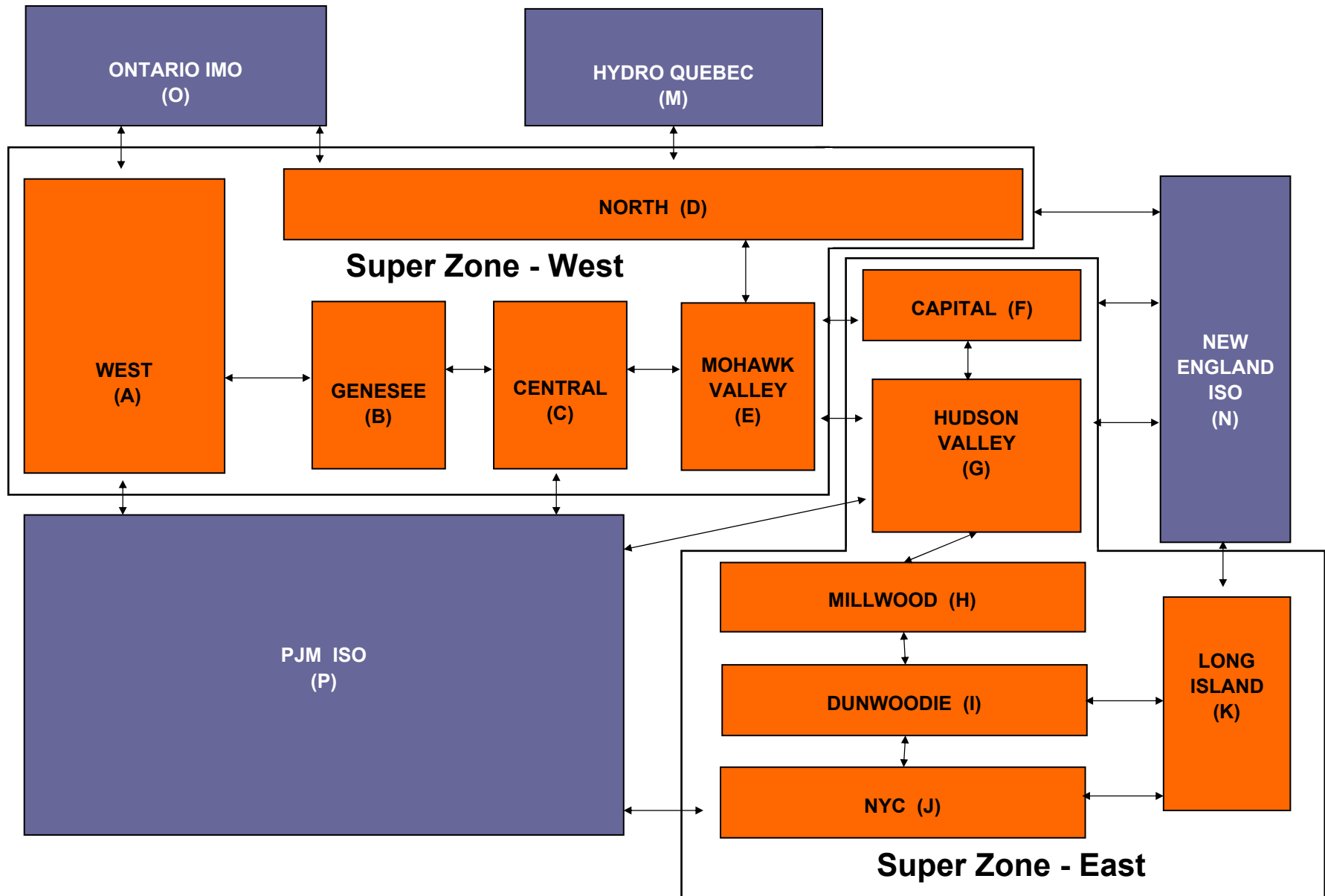


4-Y

NYISO Average Daily Load Bid Summary




NYISO LBMP ZONES



















RELIABILITY GATEWAY GOAL

1. Maintain service to NYCA load. No interruption of load because of improper implementation of NYISO operating procedures by the NYISO.		--	No loss of load or deliberate load shedding triggering a NERC reportable event (>300MW for >15 minutes)
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MARKET GATEWAY GOAL

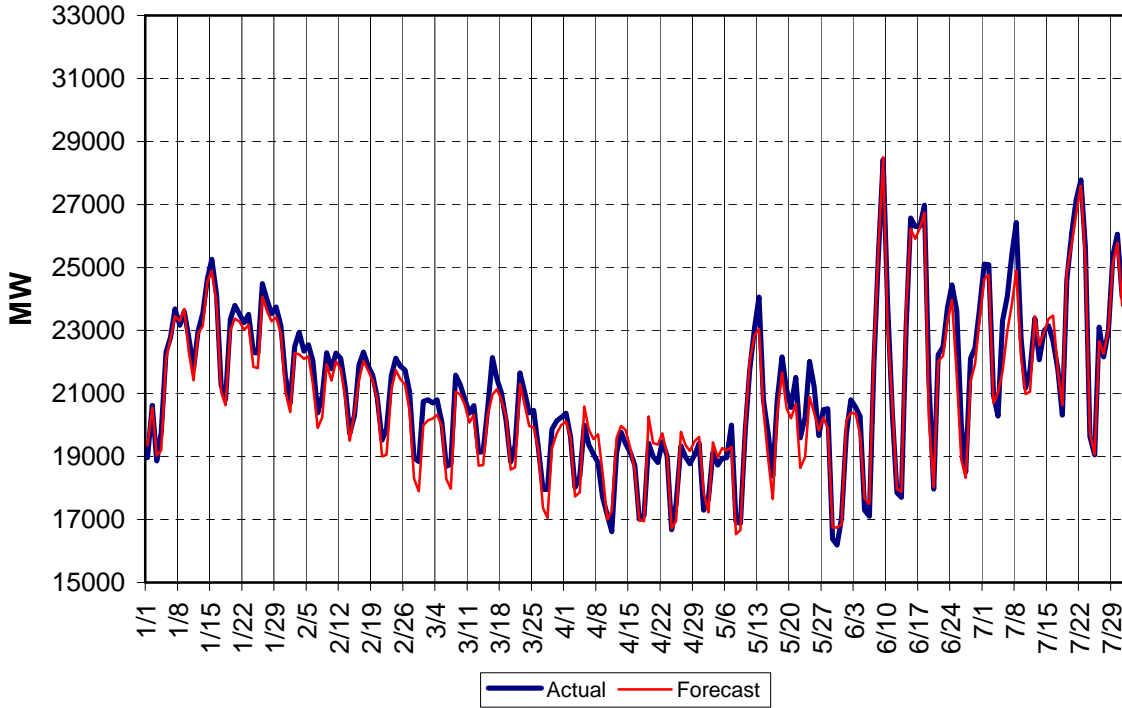
2. Successfully post DAM schedules/forward contracts.		--	DAM schedules/forward contracts are posted >=99.7% of the time during 2004
---	---	----	--

Goal Values

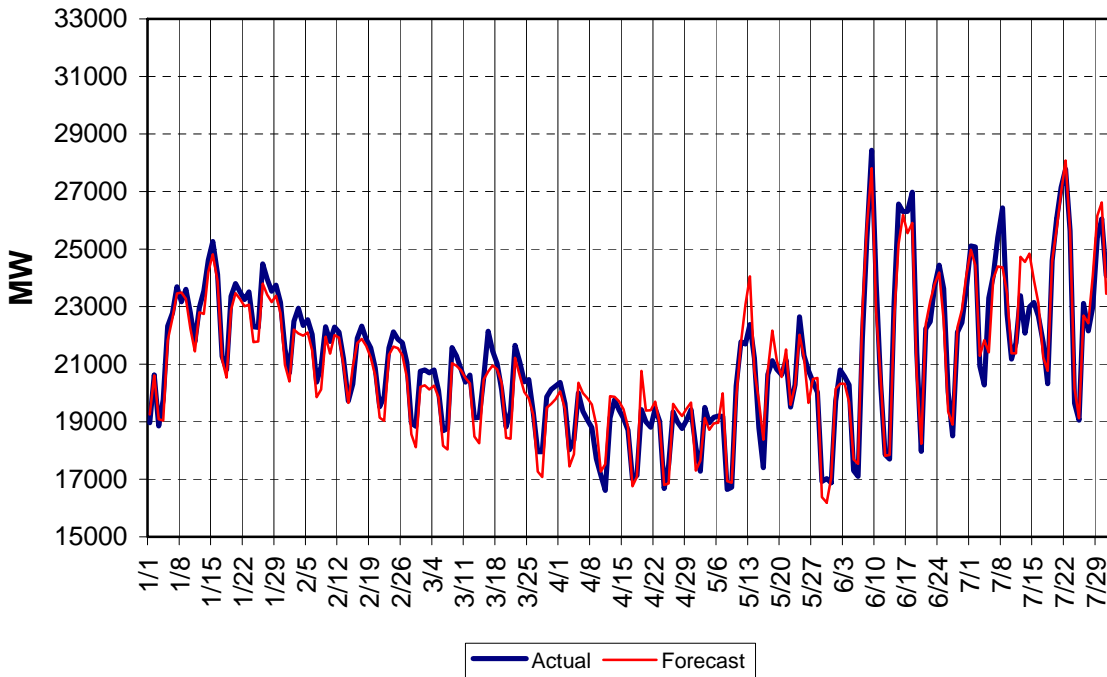
Goal Description	YTD Data	Threshold Payout-50%	Target Payout-100%	Superior Payout-150%
3. Comprehensive Electric System Planning a. Complete Phase I Study b. Complete FERC filing of Phase II	 	Submitted 5/15 --	7/1/04 12/1/04	6/1/04 11/1/04
4. Comply with NERC/NAERO Operating Standards a. CPS-2: b. Disturbance Control Standards (DCS):	 	6/6 months May – 95.88 6/6 months	10 of 12 months 10 of 12 months	12 of 12 months 11 of 12 months
5.a. Achieve timely posting of DAM schedules and forward contracts. Post by 11 a.m.: b. i) MIS availability >= 9x.x% as planned, based on current availability metrics ii) During the year, an individual occurrence of unplanned (i.e., <48 hours' notice) service interruptions will not be greater than 4 hours; there won't be more than:	  	182/182 postings 5 occurrences	360/366 postings 10 of 12 months 3 occurrences of 1-4 hours each	363/366 postings 11 of 12 months 2 occurrences of 1-4 hours each
6. Improve the certainty and accuracy of Real-Time prices: a. Hours reserved: b. Intervals corrected:	 	Through June – 8.47% 1.72%	<= 12% <= 0.6%	<= 10% <= 0.5%
7. Improve the billing and true-up process: a. Posting of all invoices within 5 business-days of the month according to invoice schedule b. Metering improvements c. Turnaround of Billing Defects (from NYISO notification)	  	5/6 months -- 29 B-Ds	10 of 12 months Finalize a formal meter quality and tracking program 40 B-Ds	11 of 12 months Implement program with Meter Authority agreement 35 R-Ds
8. Improve Customer Satisfaction with NYISO services as determined via surveying three times annually (average baseline score: 6.397)		April survey: 6.747	Score of >= 6.525	Score of >= 6.653
9. Project execution (weighted 20%) a. 1) Project Management – Scheduling 2) Project Management - Costs b. SMD 2.0	  	9 projects qualified – 0 miss (sch); 0 miss (cost)	3 misses 3 misses 11/16	2 misses 2 misses 10/12**

** internal schedule driving to 10/5 deployment

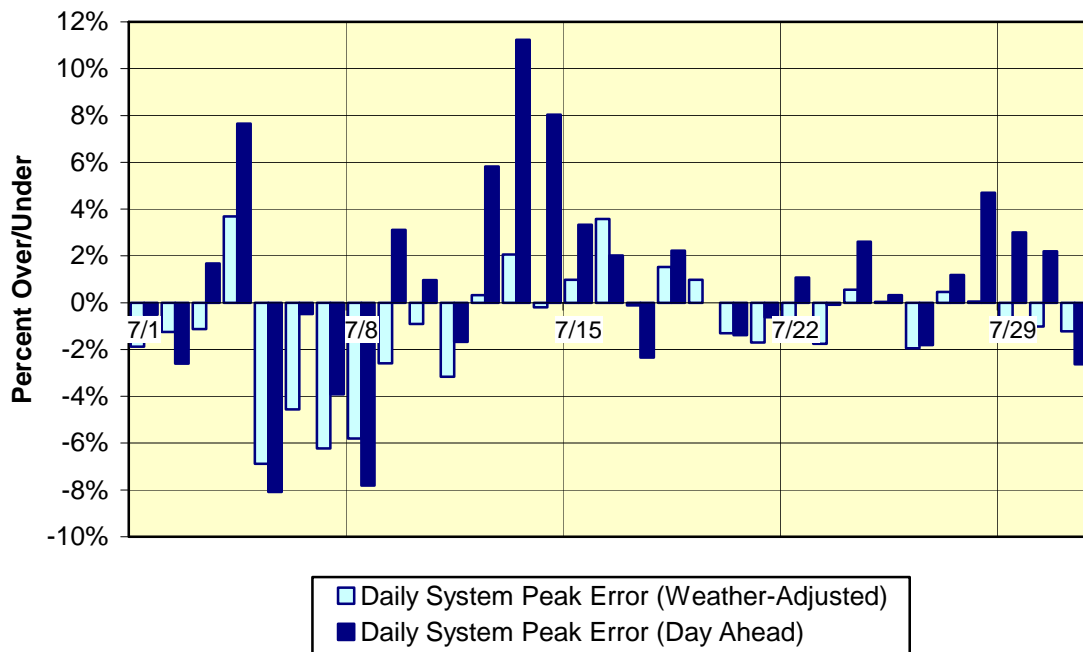
NYISO Daily Peak Load Actual vs. Weather-Adjusted Forecast



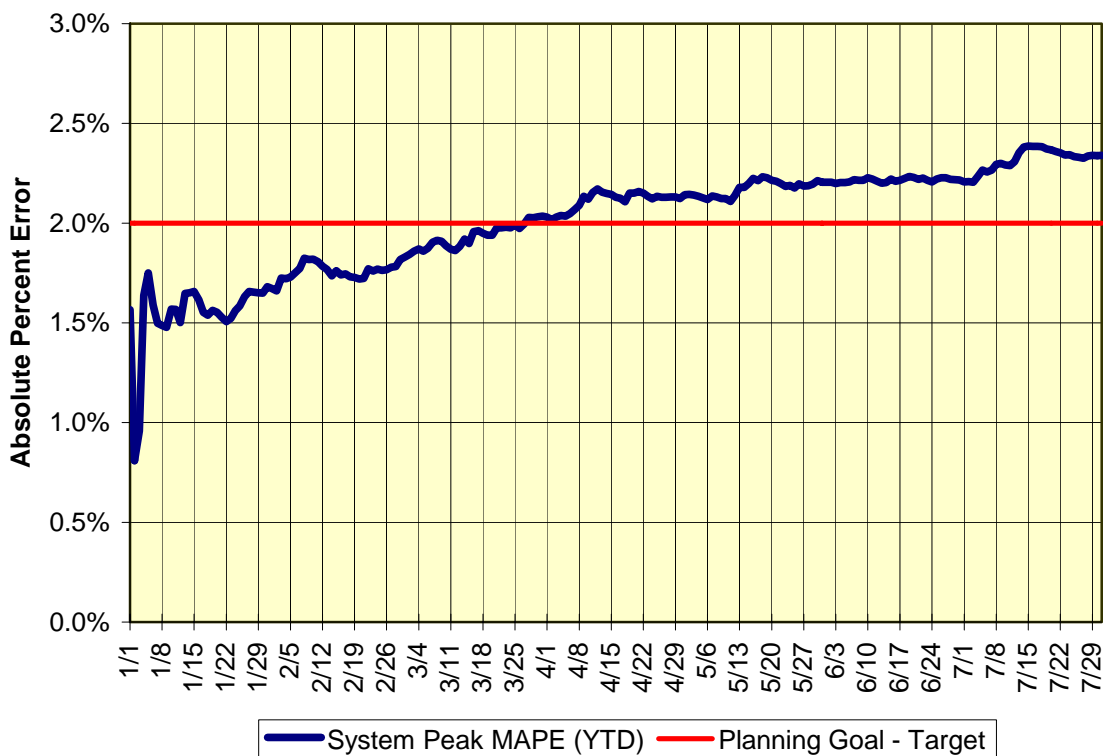
NYISO Daily Peak Load Actual vs. Forecast



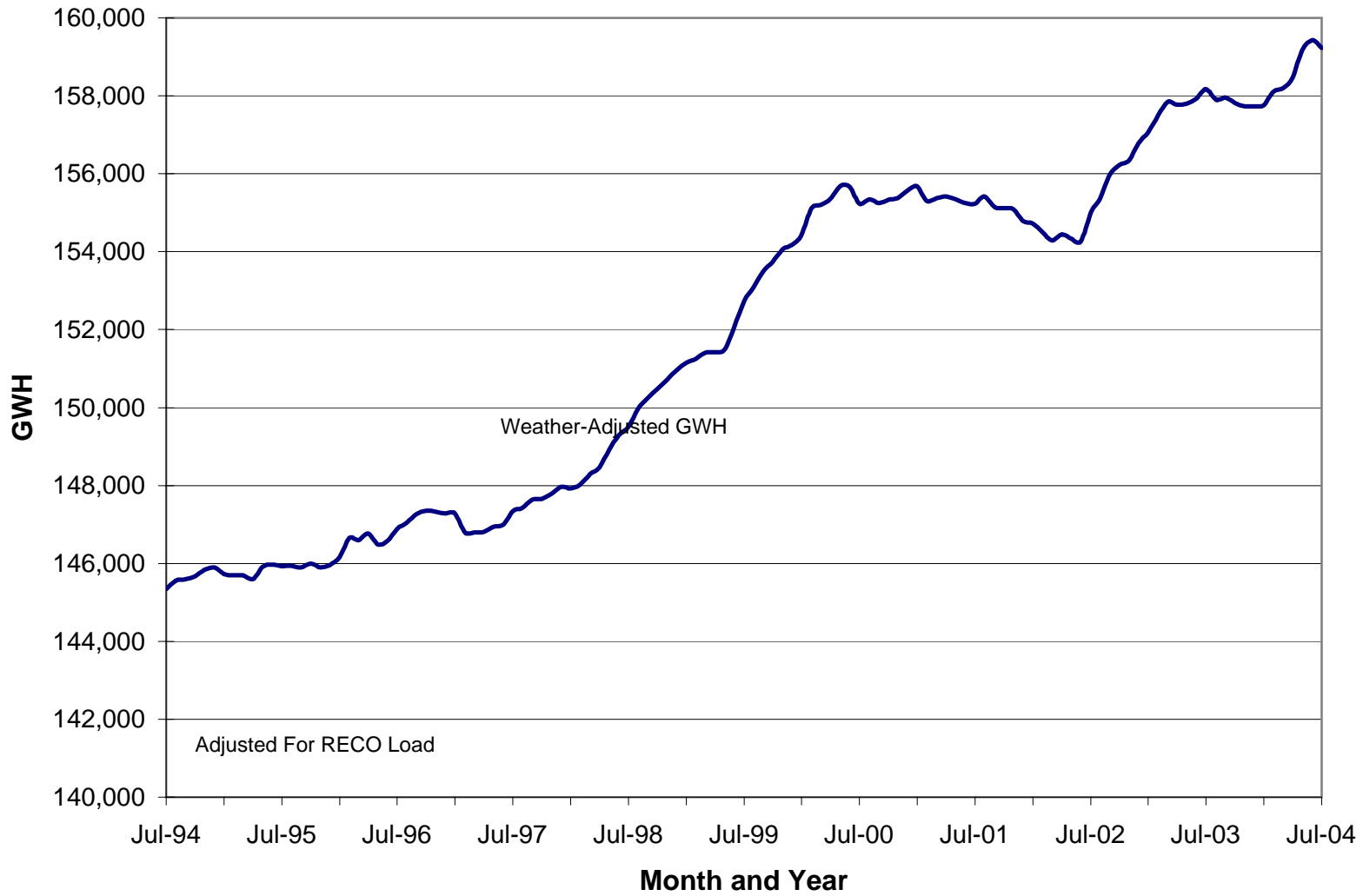
Day-Ahead Forecast Daily Forecast Errors of System Peak July, 2004



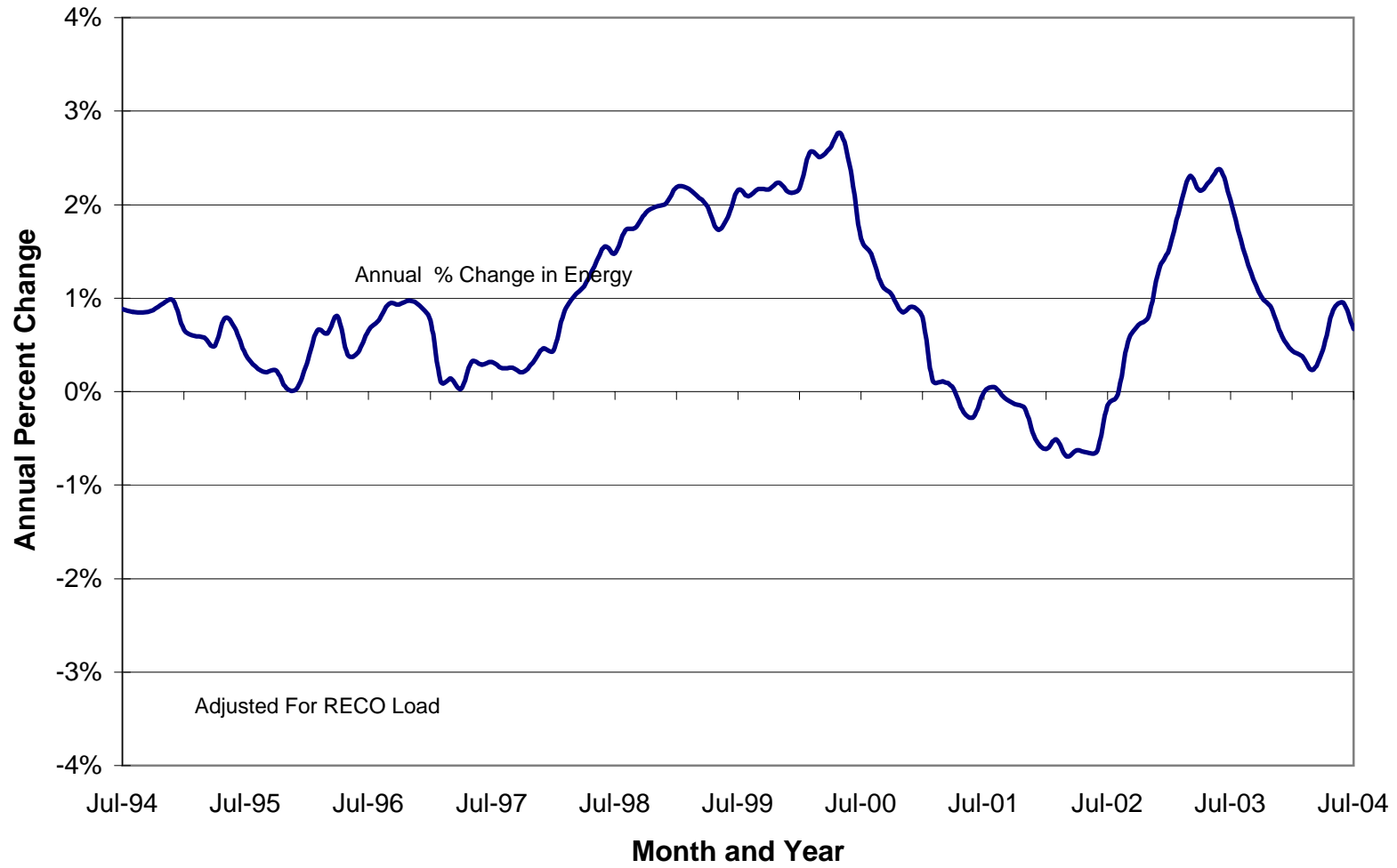
Day-Ahead Forecast Cumulative Performance - Daily System Peak 2004 Year-to-Date



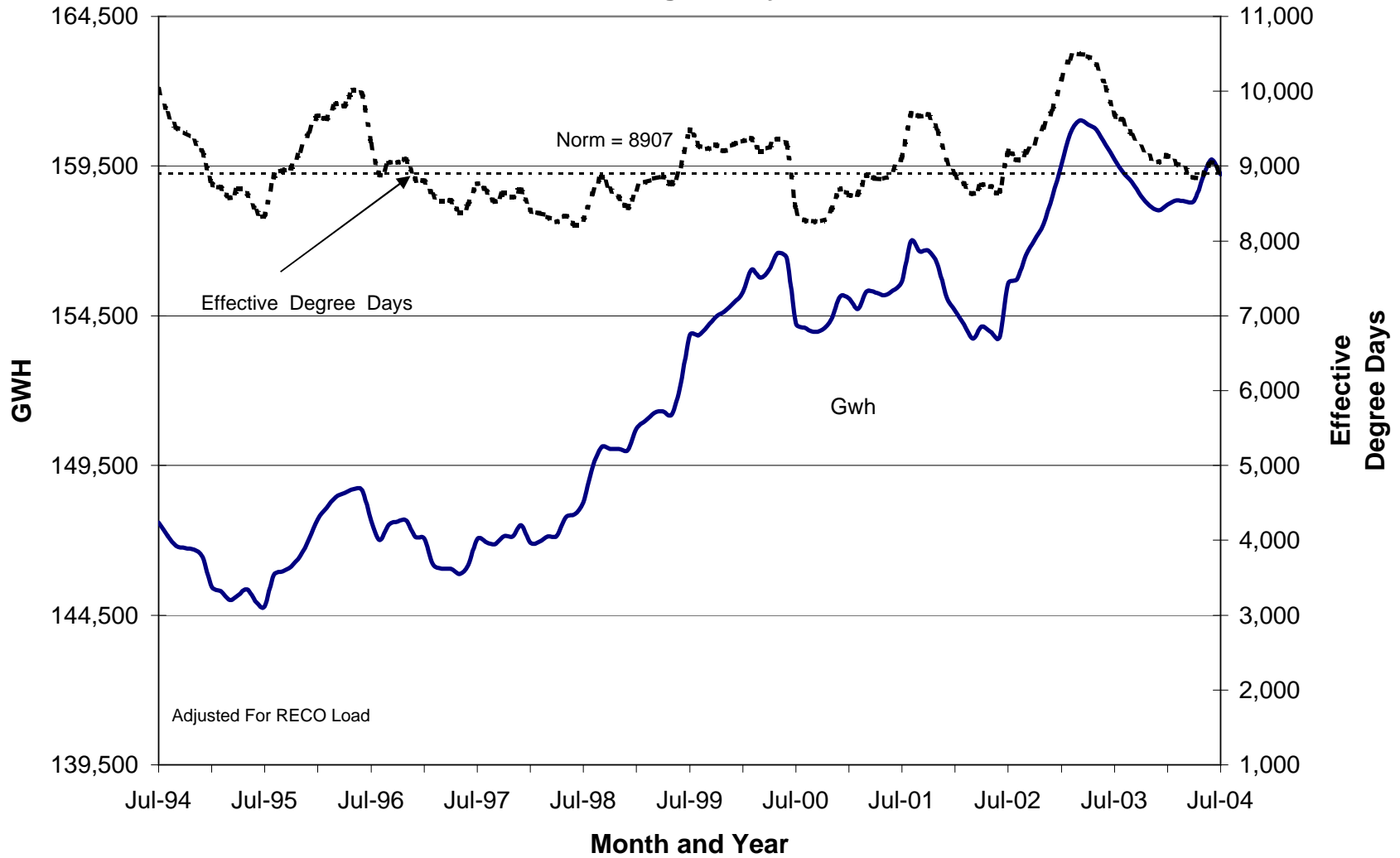
Plot Of 12 Month Moving Total Of NYCA Weather Adjusted Energy Sendout



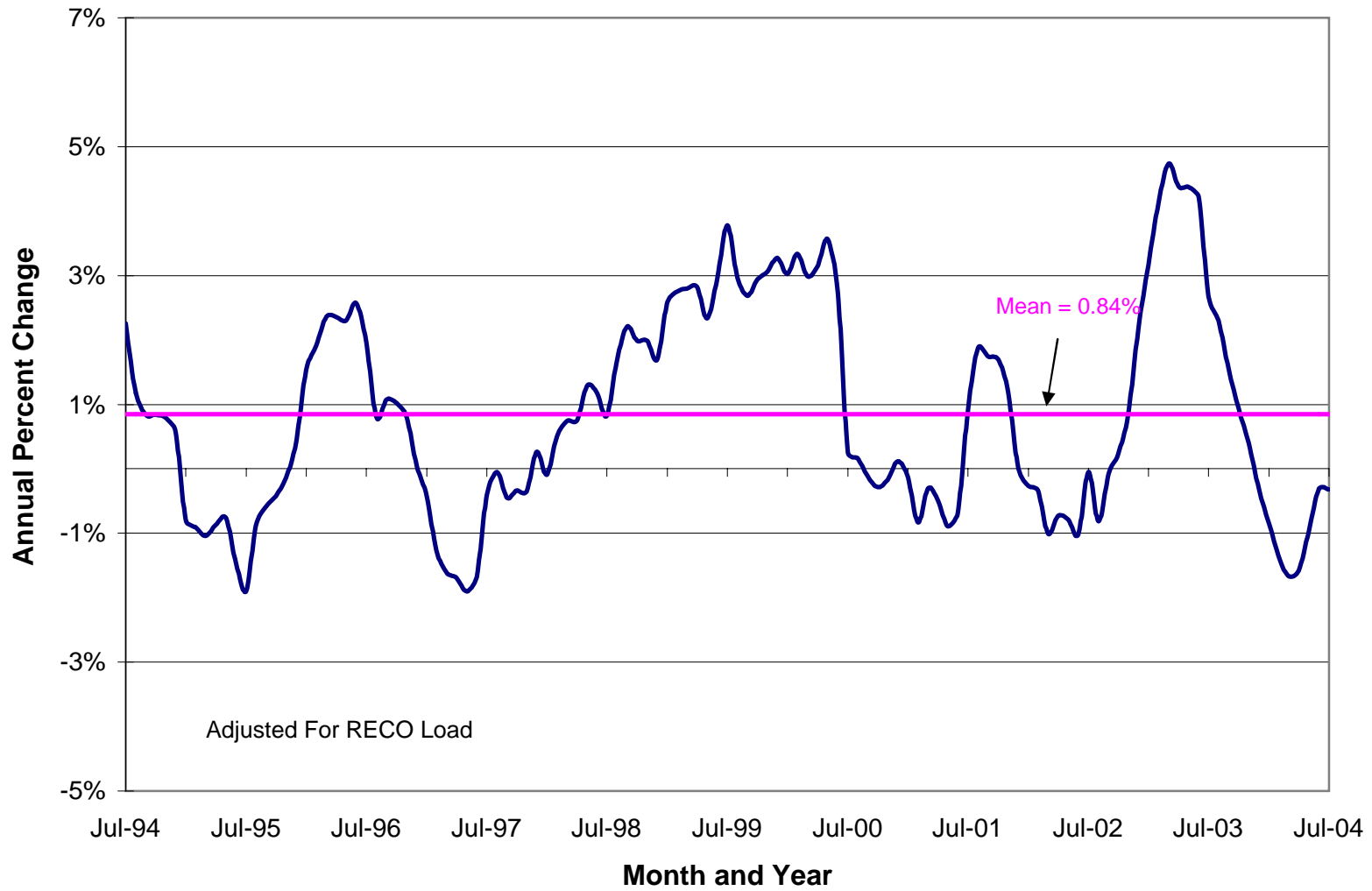
Plot Of Weather Adjusted 12 Month Moving Total Energy Sendout Annual Percent Change



**Plot Of 12 Month Moving Total Of NYCA Energy Sendout
And Effective Degree Days For 10 Years**



**Plot Of 12 Month Moving Total Energy Sendout
Annual Percent Change For 10 Years**



NYISO Regulatory Filings July 2004

- July 2, 2004 FERC Trial Staff filing of comments on the jointly filed June 14, 2004 financial settlement agreement between NYISO and Keyspan (EL02-125-000)
- July 2, 2004 NYISO filing of request for settlement conference or remedial plan regarding TCC issue (EL04-115-000, ER04-983-000)
- July 2, 2004 NYISO compliance filing of FERC ordered tariff modifications regarding prepayment collateral under NYISO's credit policy (ER03-552-009, ER03-984-007)
- July 6, 2004 NYISO compliance filing of a schedule for implementing a self supply option (ER03-836-004)
- July 7, 2004 Multiple filings of motion to intervene regarding NYISO filing involving its customer creditworthiness requirements (ER04-932-000)
- July 8, 2004 NYISO compliance filing of the 10 minute NSR Report (ER03-836-005)
- July 9, 2004 NYISO filing of request for extension of time for answering of complaints, comments and the TCC remedy filing (EL04-113-000, EL04-115-000, ER04-983-000)
- July 12, 2004 Multiple third party filings of motion to intervene of NYISO's July 2, 2004 TCC remedial plan filing (EL04-115-000, ER04-983-000)
- July 13, 2004 NYISO filing of an offer settlement, revised tariff sheets, request for expedited actions and waivers regarding resolution of transmission congestion contracts (EL04-110-000, EL04-113-001, EL04-115-001, ER04-983-001)
- July 14, 2004 NYISO filing of reply comments in response to FERC Trial Staff comments regarding the Keyspan v. NYISO Settlement Agreement (EL02-125-000)
- July 14, 2004 Third party filing of reply comments in response to FERC Trial Staff comments regarding the Keyspan v. NYISO Settlement Agreement (EL02-125-000,001)
- July 14, 2004 Multiple third party interventions regarding complaint against NYISO involving TCC issue (EL04-113-001)
- July 15, 2004 NYISO filing of proposed revisions to the ISO agreement regarding the addition of Demand Reduction Providers and Distributed Generators as voting members in stakeholder governance (ER04-1024-000)
- July 20, 2004 Multiple third party interventions regarding NYISO's proposed TCC settlement agreement (EL04-110-000)

NYISO Regulatory Filings July 2004

- July 22, 2004 NYISO compliance report including status report of NYISO's effort to ensure that recent TCC issues will not occur in the future
(EL04-110-001)
- July 23, 2004 NYISO filing of a report detailing its refund, showing both the principal amount and the interest calculation, payments to a third party regarding transmission losses
(ER97-1523-082, OA97-470-074, ER97-4234-072)
- July 26, 2004 NYISO filing of a notice of withdrawal of its July 2, 2004, filing requesting a settlement conference or a remedial plan regarding resolution of the TCC database transcription error issue
(EL04-115-002, ER04-938-002)

NYISO Related FERC Orders July 2004

- July 13, 2004 FERC order denying a third party complaint against NYISO concerning calculation of in-city installed capacity rebates (EL04-36-000)
- July 12, 2004 FERC notice granting NYISO an extension of time for answering complaints and comments regarding the TCC remedy filing (EL04-113-000, EL04-115-000, ER04-983-000, EL04-110-000)
- July 22, 2004 FERC order accepting NYISO's settlement offer and proposed tariff revisions regarding TCC resolution (EL04-110-000, EL04-115-000, EL04-115-001, ER04-983-000, ER04-983-001, EL04-113-000, EL04-113-001)
- July 26, 2004 FERC ALJ order certifying the uncontested settlement of the financial settlement and non-financial settlement agreement regarding cost allocation for new interconnection facilities (EL02-125-001)
- July 28, 2004 FERC letter order rejecting as moot NYISO's November 30, 2000 alternate compliance filing regarding the formula for calculating lost opportunity cost payments (ER00-1969-005)
- July 30, 2004 FERC letter order accepting NYISO's June 16, 2004 filing of revised tariff sheets so that certain transmission charges currently billed and collected by the transmission owners will be addressed by NYISO's creditworthiness requirements (ER04-932-000)

NYISO Management Committee Meeting

August 3, 2004

Teleconference Meeting

MOTIONS FROM THE MEETING

Motion #1:

Motion to approve the Minutes from the July 7, 2004 MC meeting.

(Motion passed unanimously by show of hands)

Motion #2:

The Management Committee (MC) approves the Proposal related to the treatment of PURPA Units and other units, as mentioned in the presentation, but not to ELRs and CLRs, in RTS, as presented to the Business Issues Committee (BIC) on July 21, 2004 and the MC on August 3, 2004, and recommends to the Board of Directors that the NYISO should be authorized to submit said Tariff Modifications to the FERC.

Motion passed unanimously by show of hands.

(Motion passed unanimously by show of hands)

Motion #3:

The Management Committee (MC) approves the Proposal, including a draft tariff amendment, related to Bid Production Cost Guarantees for Reserve and Maximum Generation Pickups in SMD, as presented to the Business Issues Committee (BIC) on July 21, 2004 and the MC on August 3, 2004, and recommends to the Board of Directors that the NYISO should be authorized to submit to the FERC the proposed tariff amendment.

(Motion passed unanimously by show of hands)

Motion #4:

The Management Committee (MC) approves the Proposal to forgive Gas Turbine Penalties, both going forward and retroactive to June 01, 2003, as presented to the Business Issues Committee (BIC) on July 21, 2004 and the MC on August 3, 2004 and recommends to the Board of Directors that the NYISO should be authorized to submit tariff modifications to the FERC and to request permission to waive such penalties between June 1, 2003 and the effective date of said tariff amendments.

(Motion passed unanimously by show of hands)

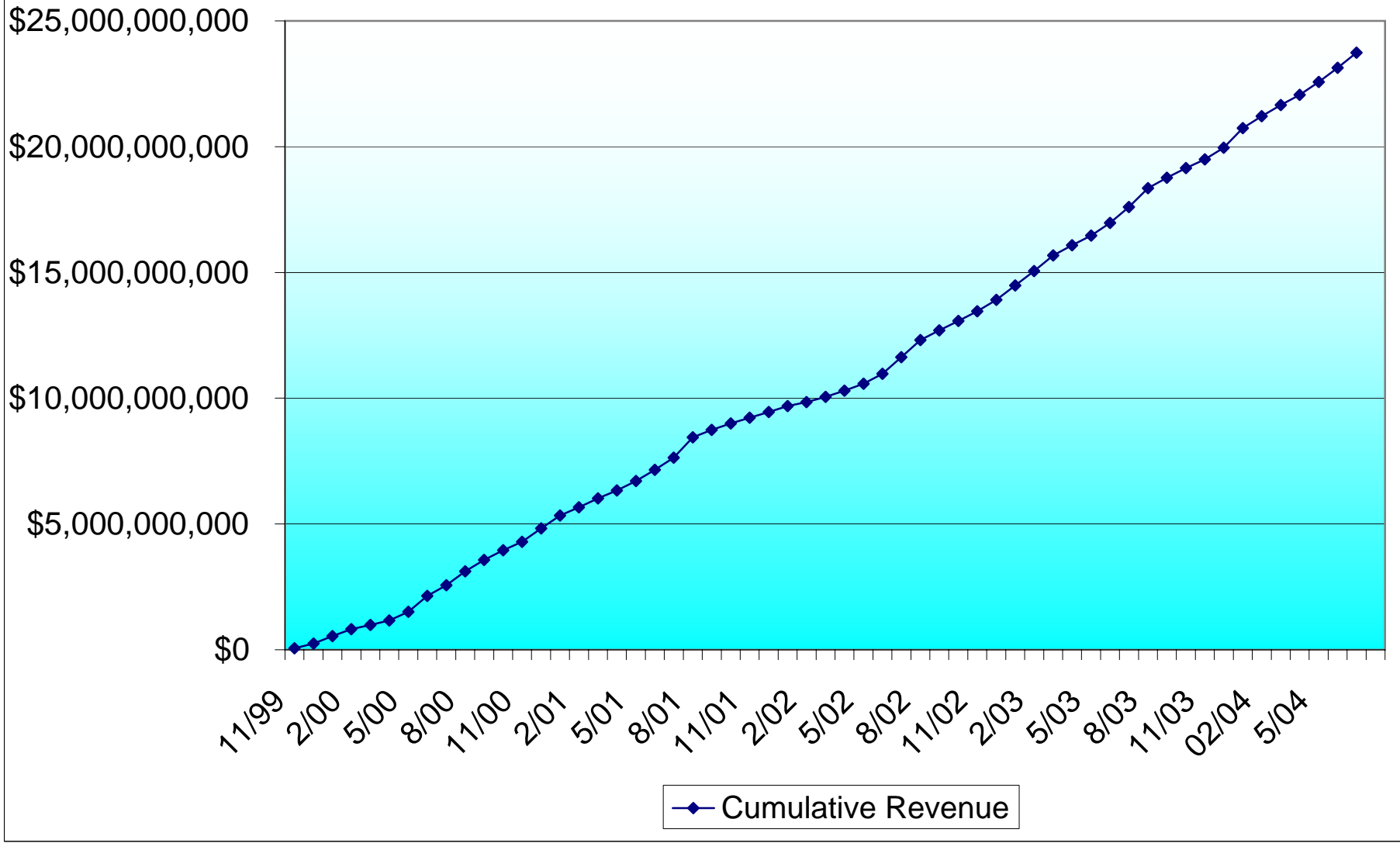


2004 BUDGET VS. ACTUAL VARIANCES

(dollar amounts in thousands)

	<i>YTD through July 2004</i>			
	<i>Budget</i>	<i>Actuals</i>	<i>\$ Var.</i>	<i>% Var.</i>
Capital Assets	\$ 10,590	\$ 5,218	\$ (5,372)	-51%
Salaries & Benefits	25,571	23,887	(1,684)	-7%
Consultants	14,680	12,807	(1,873)	-13%
Legal	3,500	3,657	157	4%
Building Services	2,049	2,108	59	3%
Computer Services	13,799	19,274	5,475	40%
Insurance	4,499	3,837	(662)	-15%
Telecommunications	1,677	2,599	922	55%
Board of Directors	540	446	(94)	-17%
Meetings, Travel, Training	1,693	1,459	(234)	-14%
NPCC Fees	890	989	99	11%
FERC Fees	4,667	3,098	(1,569)	-34%
Debt Service & Bank Fees	<u>15,458</u>	<u>14,835</u>	<u>(623)</u>	-4%
TOTAL BUDGET SPENDING	<u>\$ 99,613</u>	<u>\$ 94,214</u>	<u>\$ (5,398)</u>	<u>-6%</u>
Less: Miscellaneous Revenues	(621)	(585)	36	-6%
Less: Net Proceeds from Bank Financing	(23,000)	(23,000)	0	0%
Plus: Interest on 2004 Bank Financing	<u>354</u>	<u>120</u>	<u>(234)</u>	<u>0%</u>
EQUALS: Funds Needed via RS#1	<u>\$ 76,345</u>	<u>\$ 70,749</u>	<u>\$ (5,596)</u>	<u>-7%</u>
COMPARED TO: Funds Received via RS#1			<u>(1,904)</u>	
EQUALS: Total Due (to)/from Market Participants			<u>\$ (7,500)</u>	

Cumulative Gross Revenue of all Monthly Components



NYISO
 MARKET PARTICIPANT ENERGY BILLINGS
 SUMMARY OF NET RECEIVABLES

RECEIVABLES

	ORIGINAL INVOICE	4 MO TU	12 MO TU	24 MO TU	REBILL	Final Bill Challenge	TU TOTAL	% OF TU	
Nov-99	\$ 41,914,277	\$ -	\$ 4,601,583	11% \$ 1,653,001	4%	\$ 435,491	1%	\$ 6,690,076	16%
Dec-99	\$ 133,158,638	\$ -	\$ 9,535,988	7% \$ 1,707,927	1%	\$ 3,510,999	3%	\$ 14,754,914	11%
Jan-00	\$ 217,994,281	\$ -	\$ 13,514,891	6% \$ 6,139,030	3%	\$ 3,934,882	2%	\$ 23,588,803	11%
Feb-00	\$ 186,799,918	\$ -	\$ 13,029,978	7% \$ 1,518,328	1%	\$ 3,133,700	2%	\$ 17,682,007	9%
Mar-00	\$ 124,028,665	\$ -	\$ -	0% \$ 889,309	1%	\$ 24,987,775		\$ 25,877,084	21%
Apr-00	\$ 135,512,224	\$ -	\$ -	0% \$ 1,287,032	1%			\$ 1,287,032	1%
May-00	\$ 222,997,916	\$ -	\$ 19,374,704	9% \$ 7,788,534	3%			\$ 27,163,238	12%
Jun-00	\$ 415,492,540	\$ -	\$ 27,121,792	7% \$ 12,457,711	3%			\$ 39,579,503	10%
Jul-00	\$ 252,252,351	\$ -	\$ 19,489,697	8% \$ 2,724,735	1%			\$ 22,214,432	9%
Aug-00	\$ 361,947,692	\$ -	\$ 35,775,647	10% \$ 5,508,600	2%			\$ 41,284,247	11%
Sep-00	\$ 319,094,875	\$ -	\$ 31,071,138	10% \$ 6,605,678	2%			\$ 37,676,816	12%
Oct-00	\$ 274,787,453	\$ 15,496,075	6% \$ 3,205,891	1% \$ 3,745,905	1%			\$ 22,447,871	8%
Nov-00	\$ 256,009,720	\$ 16,262,668	6% \$ 2,052,169	1% \$ 1,784,229	1%			\$ 20,099,066	8%
Dec-00	\$ 396,610,564	\$ 19,537,029	5% \$ 4,026,996	1% \$ 4,066,092	1%			\$ 27,630,117	7%
Jan-01	\$ 344,295,355	\$ 12,571,017	4% \$ 2,521,671	1% \$ 1,474,285	0%			\$ 16,566,973	5%
Feb-01	\$ 234,382,099	\$ 9,148,844	4% \$ 1,699,302	1% \$ 1,263,189	1%			\$ 12,111,335	5%
Mar-01	\$ 245,443,896	\$ 9,390,961	4% \$ 1,698,249	1% \$ 743,656	0%	\$ 796,426	0%	\$ 12,629,292	5%
Apr-01	\$ 231,563,601	\$ 11,382,682	5% \$ 2,133,766	1% \$ 890,456	0%	\$ 658,768	0%	\$ 15,065,671	7%
May-01	\$ 258,524,171	\$ 16,241,860	6% \$ 9,994,318	4% \$ 1,825,702	1%	\$ 1,368,697	1%	\$ 29,430,577	11%
Jun-01	\$ 295,777,209	\$ 15,607,316	5% \$ 4,491,251	2% \$ 1,542,666	1%	\$ 1,187,881	0%	\$ 22,829,115	8%
Jul-01	\$ 331,328,591	\$ 12,637,804	4% \$ 1,772,024	1% \$ 1,625,857	0%	\$ 1,603,042	0%	\$ 17,638,727	5%
Aug-01	\$ 569,513,449	\$ 15,344,918	3% \$ 3,305,630	1% \$ 4,545,234	1%	\$ 4,801,994	1%	\$ 27,997,775	5%
Sep-01	\$ 193,119,838	\$ 6,492,345	3% \$ 1,089,635	1% \$ 2,225,022	1%	\$ 689,003	0%	\$ 10,496,005	5%
Oct-01	\$ 167,598,022	\$ 7,307,617	4% \$ 1,514,234	1% \$ 5,582,048	3%			\$ 14,403,899	9%
Nov-01	\$ 152,726,458	\$ 5,896,866	4% \$ 1,932,100	1% \$ 891,443	1%			\$ 8,720,410	6%
Dec-01	\$ 162,617,275	\$ 4,249,430	3% \$ 995,912	1% \$ 1,795,660	1%			\$ 7,041,002	4%
Jan-02	\$ 169,114,538	\$ 4,603,989	3% \$ 1,328,924	1% \$ 999,869	1%			\$ 6,932,782	4%
Feb-02	\$ 128,174,423	\$ 4,949,637	4% \$ 988,313	1% \$ 760,711	1%			\$ 6,698,661	5%
Mar-02	\$ 173,757,055	\$ 7,871,772	5% \$ 1,361,075	1% \$ 1,070,136	1%	\$ 591,897	0%	\$ 10,894,880	6%
Apr-02	\$ 227,372,883	\$ 8,763,681	4% \$ 799,348	0% \$ 1,412,591	1%	\$ 3,012,033	1%	\$ 13,987,653	6%
May-02	\$ 193,153,839	\$ 4,859,821	3% \$ 1,976,821	1% \$ 1,470,091	1%			\$ 8,306,733	4%
Jun-02	\$ 243,510,171	\$ 10,447,096	4% \$ 2,158,556	1% \$ 1,668,758	1%			\$ 14,274,410	6%
Jul-02	\$ 423,363,985	\$ 14,296,715	3% \$ 3,381,899	1% \$ 2,954,088	1%			\$ 20,632,701	5%
Aug-02	\$ 417,275,164	\$ 10,037,896	2% \$ 2,592,885	1%				\$ 12,630,782	3%
Sep-02	\$ 254,643,037	\$ 8,336,608	3% \$ 3,209,330	1%				\$ 11,545,938	5%
Oct-02	\$ 259,006,539	\$ 5,948,283	2% \$ 2,087,459	1%	\$ 2,139,799	1%		\$ 10,175,540	4%
Nov-02	\$ 253,526,260	\$ 5,452,407	2% \$ 1,839,940	1%	\$ 2,351,205	1%		\$ 9,643,551	4%
Dec-02	\$ 299,517,867	\$ 8,205,366	3% \$ 1,386,782	0%	\$ 2,029,395	1%		\$ 11,621,543	4%
Jan-03	\$ 399,263,104	\$ 9,844,614	2% \$ 2,098,338	1%	\$ 1,191,493	0%		\$ 13,134,445	3%
Feb-03	\$ 418,175,564	\$ 11,981,141	3% \$ 2,458,047	1%	\$ 1,187,456	0%		\$ 15,626,644	4%
Mar-03	\$ 426,467,140	\$ 9,873,309	2% \$ 1,267,254	0%	\$ 1,773,369	0%		\$ 12,913,933	3%
Apr-03	\$ 288,946,161	\$ 7,395,252	3% \$ 1,494,349	1%				\$ 8,889,601	3%
May-03	\$ 248,638,313	\$ 5,874,403	2% \$ 1,274,495	1%				\$ 7,148,897	3%
Jun-03	\$ 300,747,684	\$ 7,396,478	2% \$ 1,361,206	0%				\$ 8,757,684	3%
Jul-03	\$ 418,581,237	\$ 13,132,010	3% \$ 2,180,703	1%				\$ 15,312,713	4%
Aug-03	\$ 514,126,607	\$ 13,977,562	3%					\$ 13,977,562	3%
Sep-03	\$ 283,123,546	\$ 6,445,812	2%					\$ 6,445,812	2%
Oct-03	\$ 245,463,938	\$ 5,837,631	2%					\$ 5,837,631	2%
Nov-03	\$ 216,846,601	\$ 9,096,310	4%					\$ 9,096,310	4%
Dec-03	\$ 287,418,382	\$ 11,239,879	4%					\$ 11,239,879	4%
Jan-04	\$ 505,153,722	\$ 27,322,738	5%					\$ 27,322,738	5%
Feb-04	\$ 312,550,760	\$ 13,321,219	4%					\$ 13,321,219	4%
Mar-04	\$ 300,111,357	\$ 8,890,522	3%					\$ 8,890,522	3%
SUBTOTAL	\$ 14,733,520,955	\$ 432,969,582	\$ 251,194,290	\$ 92,617,570	\$ 50,370,235		\$ 838,166,753	6%	
Apr-04	\$ 275,622,576								
May-04	\$ 325,883,910								
Jun-04	\$ 352,125,882								
Jul-04	\$ 381,996,419								
GRAND TOTAL	\$ 16,069,149,742	\$ 432,969,582	\$ 251,194,290	\$ 92,617,570	\$ 50,370,235		\$ 838,166,753	5%	

**24 month True ups for May 2000 & June 2000 were fairly high due to significant adjustments to two customers' congestion rent. (\$5M in May 2000 & \$11M in June 2000)

**NYISO
MARKET PARTICIPANT ENERGY BILLINGS
SUMMARY OF NET PAYABLES**

****PAYABLES****

	ORIGINAL INVOICE	4 MO TU	12 MO TU	24 MO TU	REBILL	Final Bill Challenge	TU TOTAL	% OF TU			
Nov-99	\$ 35,518,827	\$ -	\$ 4,367,509	12%	\$ 1,679,571	5%	\$ 490,908.55	1%	\$ 7,385,458	21%	
Dec-99	\$ 102,079,272	\$ -	\$ 8,340,216	8%	\$ 1,696,026	2%	\$ 3,616,444.38	4%	\$ 22,876,134	22%	
Jan-00	\$ 183,037,026	\$ -	\$ 12,925,858	7%	\$ 6,158,187	3%	\$ 3,940,531.33	2%	\$ 32,697,224	18%	
Feb-00	\$ 185,282,663	\$ -	\$ 12,448,203	7%	\$ 1,547,338	1%	\$ 3,133,334.38	2%	\$ 25,036,185	14%	
Mar-00	\$ 122,503,213	\$ -	\$ -	0%	\$ 1,160,468	1%	\$ 25,013,672		\$ 31,123,571	25%	
Apr-00	\$ 124,848,119	\$ -	\$ 9,564,586	8%	\$ 1,593,548	1%			\$ 11,158,134	9%	
May-00	\$ 232,582,089	\$ -	\$ 18,902,475	8%	\$ 7,780,529	3%			\$ 26,683,004	11%	
Jun-00	\$ 406,914,315	\$ -	\$ 26,020,673	6%	\$ 12,146,262	3%			\$ 38,166,935	9%	
Jul-00	\$ 243,016,054	\$ -	\$ 18,485,919	8%	\$ 2,720,323	1%			\$ 21,206,242	9%	
Aug-00	\$ 361,347,651	\$ -	\$ 35,133,640	10%	\$ 5,522,743	2%			\$ 40,656,383	11%	
Sep-00	\$ 294,082,367	\$ -	\$ 30,486,502	10%	\$ 6,594,252	2%			\$ 37,080,754	13%	
Oct-00	\$ 266,390,264	\$ -	\$ 2,714,042	1%	\$ 3,747,010	1%			\$ 21,819,570	8%	
Nov-00	\$ 246,642,946	\$ -	\$ 1,641,605	1%	\$ 1,788,082	1%			\$ 15,630,189	6%	
Dec-00	\$ 385,457,152	\$ -	\$ 3,608,151	1%	\$ 4,070,768	1%			\$ 27,238,727	7%	
Jan-01	\$ 334,775,998	\$ 12,164,291	4%	\$ 2,555,817	1%	\$ 1,505,088	0%		\$ 20,149,851	6%	
Feb-01	\$ 227,544,273	\$ 8,654,168	4%	\$ 1,776,808	1%	\$ 1,256,091	1%		\$ 14,800,320	7%	
Mar-01	\$ 234,105,528	\$ 7,955,548	3%	\$ 1,720,487	1%	\$ 748,584	0%	\$ 796,715	0%	\$ 14,489,543	6%
Apr-01	\$ 223,148,288	\$ 11,261,833	5%	\$ 2,545,748	1%	\$ 891,614	0%	\$ 658,557	0%	\$ 15,357,752	7%
May-01	\$ 250,351,122	\$ 16,266,662	6%	\$ 10,011,715	4%	\$ 1,839,840	1%	\$ 1,380,341	1%	\$ 29,498,559	12%
Jun-01	\$ 283,165,040	\$ 15,595,541	6%	\$ 4,128,716	1%	\$ 1,542,154	1%	\$ 1,311,283	0%	\$ 22,577,694	8%
Jul-01	\$ 319,423,484	\$ 13,300,599	4%	\$ 2,091,582	1%	\$ 1,642,515	1%	\$ 1,592,304	0%	\$ 18,627,000	6%
Aug-01	\$ 554,917,297	\$ 15,292,776	3%	\$ 3,690,366	1%	\$ 4,308,889	1%	\$ 4,797,469	1%	\$ 28,089,500	5%
Sep-01	\$ 182,063,076	\$ 6,493,353	4%	\$ 1,429,526	1%	\$ 2,218,595	1%	\$ 688,997	0%	\$ 10,830,471	6%
Oct-01	\$ 157,220,616	\$ 7,283,603	5%	\$ 1,830,221	1%	\$ 2,087,459	1%			\$ 11,201,283	7%
Nov-01	\$ 143,420,554	\$ 5,970,571	4%	\$ 1,932,886	1%	\$ 870,293	1%			\$ 8,773,751	6%
Dec-01	\$ 154,098,810	\$ 4,286,144	3%	\$ 999,872	1%	\$ 1,765,734	1%			\$ 7,051,750	5%
Jan-02	\$ 160,819,725	\$ 4,626,721	3%	\$ 1,299,584	1%	\$ 1,005,172	1%			\$ 6,931,478	4%
Feb-02	\$ 120,848,588	\$ 4,931,677	4%	\$ 989,372	1%	\$ 743,028	1%			\$ 6,664,077	6%
Mar-02	\$ 165,725,539	\$ 7,827,174	5%	\$ 1,411,595	1%	\$ 1,045,083	1%	\$ 592,554	0%	\$ 10,876,406	7%
Apr-02	\$ 222,151,382	\$ 8,779,909	4%	\$ 832,067	0%	\$ 1,398,781	1%	\$ 2,982,051	1%	\$ 13,992,808	6%
May-02	\$ 183,815,292	\$ 4,546,883	2%	\$ 1,976,201	1%	\$ 1,460,993	1%			\$ 7,984,076	4%
Jun-02	\$ 246,221,592	\$ 10,434,484	4%	\$ 2,155,248	1%	\$ 1,657,710	1%			\$ 14,247,443	6%
Jul-02	\$ 409,240,558	\$ 14,528,756	4%	\$ 3,375,870	1%	\$ 2,925,935	1%			\$ 20,830,561	5%
Aug-02	\$ 404,158,825	\$ 10,211,707	3%	\$ 2,426,894	1%					\$ 12,638,601	3%
Sep-02	\$ 243,973,745	\$ 8,363,796	3%	\$ 3,174,497	1%					\$ 11,538,293	5%
Oct-02	\$ 248,659,897	\$ 5,971,255	2%	\$ 1,740,455	1%			\$ 2,130,811	1%	\$ 9,842,521	4%
Nov-02	\$ 243,580,981	\$ 5,477,164	2%	\$ 1,818,673	1%			\$ 2,336,086	1%	\$ 9,631,923	4%
Dec-02	\$ 288,570,651	\$ 8,221,256	3%	\$ 1,368,392	0%			\$ 2,029,091	1%	\$ 11,618,739	4%
Jan-03	\$ 386,692,211	\$ 9,867,267	3%	\$ 2,071,685	1%			\$ 1,195,113	0%	\$ 13,134,066	3%
Feb-03	\$ 407,240,054	\$ 12,015,097	3%	\$ 2,443,568	1%			\$ 1,185,813	0%	\$ 15,644,478	4%
Mar-03	\$ 415,026,752	\$ 9,888,707	2%	\$ 1,259,304	0%			\$ 1,773,369	0%	\$ 12,921,381	3%
Apr-03	\$ 278,826,241	\$ 7,393,788	3%	\$ 1,500,815	1%					\$ 8,894,603	3%
May-03	\$ 238,359,528	\$ 5,856,019	2%	\$ 1,306,262	1%					\$ 7,162,280	3%
Jun-03	\$ 289,166,413	\$ 7,355,535	3%	\$ 1,414,076	0%					\$ 8,769,611	3%
Jul-03	\$ 404,807,368	\$ 13,029,763	3%	\$ 2,317,535	1%					\$ 15,347,298	4%
Aug-03	\$ 494,075,742	\$ 14,065,141	3%							\$ 14,065,141	3%
Sep-03	\$ 271,779,605	\$ 6,246,294	2%							\$ 6,246,294	2%
Oct-03	\$ 234,334,309	\$ 5,816,672	2%							\$ 5,816,672	2%
Nov-03	\$ 206,281,555	\$ 9,061,998	4%							\$ 9,061,998	4%
Dec-03	\$ 275,110,914	\$ 11,168,245	4%							\$ 11,168,245	4%
Jan-04	\$ 491,534,651	\$ 27,111,865	6%							\$ 27,111,865	6%
Feb-04	\$ 300,622,192	\$ 13,327,763	4%							\$ 13,327,763	4%
Mar-04	\$ 287,880,497	\$ 8,899,159	3%							\$ 8,899,159	3%
SUBTOTAL	\$ 14,173,440,850	\$ 379,549,184	3%	\$ 254,235,214	2%	\$ 89,118,667	1%	\$ 50,464,227	0%	\$ 874,573,764	6%
Apr-04	\$ 264,840,195										
May-04	\$ 313,585,273										
Jun-04	\$ 338,972,977										
Jul-04	\$ 367,658,032										
GRAND TOTAL	\$ 15,458,497,327	\$ 379,549,184		\$ 254,235,214		\$ 89,118,667		\$ 50,464,227		\$ 874,573,764	

NYISO Projects Portfolio Status Report July 2004

This report provides the current status of projects prioritized by the Project Prioritization Team (PPT). Please refer to the accompanying Projects Portfolio (Gantt chart) for the latest scheduling and deployment information. This information is updated monthly in preparation for the scheduled PPT meetings.

Priority Projects

A725 2004 SAS 70 Type 2 Audit

- KPMG auditing NYISO Bid-to-Bill process – progress continues.
- Audit scope period ends Nov. 30.
- Designated as “exempt” priority meaning that resources are made available when and as needed to support the audit.

A683 BEA Upgrade

- The software code to implement BEA clustering into SMD2 has been transitioned to the SMD2 team.
- Clustering is now being implemented into SMD2 in preparation of go-live.
- Given the resource constraints and other priorities, the decision was made not to implement BEA clustering in the legacy environment.
- The project is now officially closed

A573 SMD 2.0 Internal NYISO System Implementation

- MIS interfaces are in Phase E – Project System Operation/Functional Test Phase.
- BAS re-bills are in Phase E – Project System Operation/Functional Test Phase.
- MIS rules changes are in Phase E – Project System Operation/Functional Test Phase.
- BAS rules changes are in Phase E – Project System Operation/Functional Test Phase.
- Upload/Download is in Phase E – Project System Operation/Functional Test Phase.
- Bid Post is in Phase E – Project System Operation/Functional Test Phase.
- The PTS replacement is in Phase E – Project System Operation/Functional Test Phase.
- Price Verification is in Phase E – Project System Operation/Functional Test Phase.
- MMRD Replacement is in Phase E – Project System Operation/Functional Test Phase.
- Probe support is in Phase E – Project System Operation/Functional Test Phase.
- The new Load Forecaster is in Phase E – Project System Operation/Functional Test Phase.

A574 SMD 2.0 ABB System Implementation Support

Market Trials:

- The SMD2 project team conducted two (2) Market Trial exercises during the month of July; a second day ahead market simulation and the first real-time market simulation.
- The Day Ahead Market Trial was a variation on the exercise that was conducted in June where Market Participants submitted bids, a simulated day ahead market was conducted, and the results were posted. The Real-time Market Trial was a significantly more complex test where bids were submitted by MPs for both that DAM and real-time

NYISO Projects Portfolio Status Report July 2004

markets, a day ahead market was conducted, 24 hours of real-time operation were simulated, and a bill was generated from the data that was collected.

- The Real-time Market Trial was the first end-to-end demonstration of the new SMD2 system for Market Participants. Both exercises received good participation on the part of the Market Participants.
- The results of the Day Ahead Market Trial were consistent with those results achieved during the first test and were largely successful. The Real-time Market Trial encountered stability problems during some hours of the test with the power system simulator that limited the opportunities to demonstrate operation of the new real-time applications.
- The periods where the simulator did not run resulted in gaps in the historical data that reduced the accuracy of the simulated bill that was created following the exercise. During the intervals where the simulator worked reliably, the new real-time applications worked according to their design.
- The integration between the NYISO software and the new ABB software worked effectively, and most modifications to the NYISO applications themselves were tested successfully. A number of software defects were identified and are being addressed prior to the next Market Trial exercise.

ABB Development:

- ABB delivered a new software release that contained fixes to previously identified software defects, and a number of the Phase 2b development items.
- ABB development activities for Phase 2b is moderately ahead of schedule to deliver the remaining features required for the "Go Live" milestone.

A688 Inadvertent Package Replacement

- Project is currently in Phase G - Closure
- Application was deployed into production on June 30.
- Currently preparing Lessons Learned documentation.

A697 Auto Sys Replacement

- End User testing is currently being performed focusing on Billing and Market Monitoring functions.
- Site failover for both QA and the future production environments were successfully tested.
- A second Control M basic training course will kickoff next week.

Next Steps:

- Continue to track progress on all testing tasks.
- Continue coordination efforts with the other SMD project managers in order to integrate all work and testing schedules.

A696 SMD-DAC

- All development is complete and testing continues.
- The project team is working with SMD and ABB to resolve outstanding SPR's identified during this testing phase.

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Next Steps:

- Continue to track progress of all pending SPRs.
- Continue coordination efforts with the other SMD project managers in order to integrate all work and testing schedules.

A667 Scarcity Pricing in SMD

- This project implements the scarcity pricing calculations in SMD2.
- Coding / unit test complete.
- QA test to begin pending availability of SMD2 test environment. Current plan is to begin testing during the week of Aug. 9.

A710 SMD Web Environment

- SMD2's marketplace.nyiso.com, bidpost.nyiso.com and mis.nyiso.com continue to support the Market Trail exercises.
- SMD OASIS Web Posting is complete and supporting the Market Trial exercises.
- Billing information changes have been deployed to SMD2's bidpost.nyiso.com, allowing the Customer Statements in BidPost/OSS to be discontinued.
- Remaining SMD2 Web activities are Phase B Project Concept activities focused on integrating remaining legacy applications (e.g. eTagging) into the SMD2 web environments.

A709 Reserve Pickup Reporting

- Project is currently in Phase E - System Operational / Functional Test.
- Still waiting resolution of SMD2 PI tags and PI data issues.
- Scheduled deployment with SMD.

A577 SMD2 Integration

- The EAI interfaces supporting the Price Verification and Load Forecast processes are actively supporting the ongoing Market Trial exercises.
- The Phase III version of the Price Verification interface remains a Phase B definition activity.
- The EAI interfaces which provide the preMGF and DA Operating Plan to Transmission Owners are operational in the ongoing Market Trial exercises.
- Remaining EAI activities are Phase C design activities focused on delivering an EAI monitoring solution that will proactively detect errors and enhance the reliability of all NYISO's EAI solutions.

A729 MIS / BAS Cluster and Site Failover

- Failover includes hardware mirror for MIS/LF & BAS/HIST, DataGuard for MIS/LF & Oracle Forms failover.
- Configuration of Hitachi TruCopy mirror was completed.
- MIS DataGuard configuration complete for production systems.
- Load Forecast DataGuard complete for QA systems.

NYISO Projects Portfolio Status Report July 2004

A690 Grouped Units

- Decision made not to deploy in legacy systems to enable focusing on implementation in SMD environment.
- Some QA testing however will be done using test legacy system environments
- QA testing is also proceeding in SMD environment.

A600 Open Billing Issues

- The A600 project was established to ensure timely action on internal billing issues (not including external items such as bad or missing metering data). Incentive Goal 7 tracks performance on the timely correction of these internal billing issues. The table below shows the total number of open billing issues at the time of the last BIG meeting as well as comparison to one-month and six-months prior. Note that four of the non-goal 7 issues currently open are non-IT issues. One is under guidance by special committee, two pertain to FERC regulatory actions, and one pertains to an ongoing dispute between two market participants.

A600 – Open Billing Issues Status			
Number of Open Issues Needing Work	7/21/2004	7/7/2004	6/23/2004
Total Goal 7 Issues	4	6	6
Total Non-Goal 7 Issues	7	6	5
Total Issues	11	12	11

A630 Automate Voltage Support Billing Calculation

- Project is in Phase B – Requirements Development however, the ability to move forward with the project is dependent upon the availability of resources.
- For prioritization purposes, this project is considered as a part of the Billing Automation projects.

A687 Automate Local Black Start Calculation

- Project is delayed pending availability of resources
- For prioritization purposes, this project is considered as a part of the Billing Automation projects.

A636 85/15 Schedule 1 Split - Phase 1

- This project has been placed on hold pending the availability of resources.
- Customer Settlements will continue to calculate this component of customer bills manually until a software solution is made available.
- For prioritization purposes, this project is considered as a part of the Billing Automation projects.

A689 Store Intermediate Billing Calculation Data

- The project is currently on hold.

NYISO Projects Portfolio Status Report July 2004

A676 Automate DAM Congestion Shortfall Calculation

- Automation of the billing process is delayed pending availability of resources.
- For prioritization purposes, this project is considered as a part of the Billing Automation projects.

A619 Controllable Tie Lines Scheduling & Pricing

- Project is currently in Phase C – Design
- Project on schedule to complete design by end of November.

A707 Process to Enhance the Settlement Cycle

- Project requirements are currently being defined.

A675 Billing Simulator

- Project currently in QA testing.

A708 Consolidate NYISO Offices

- The development of a detailed layout (Phase II Lamb Report) is complete.
- The Site Selection process is continuing.
- Additional options and cost analysis (i.e. Integrated Facility vs. PCC only vs. ACC only) have been evaluated and presented to both the BSP and MC.
- A decision on which building option the NYISO will proceed with is expected in the September/October timeframe. A presentation to the Board is scheduled for Aug. 17.
- The responses to a questionnaire, sent to all ISOs, concerning infrastructure and security issue, have been received. A summary of the questionnaire responses has been prepared and will be distributed to responding ISOs the week of Aug. 2.

A724 PCC Modifications – Security

- Phase I work includes the Lobby and Guard House at the PCC and is in progress; expected completion in early September.
- The Phase II work (outer perimeter security) is in the process of being approved.
- A new Digital Messaging System (Target Vision) has been approved and will be installed in both the PCC (in the new lobby) and at Wash. Ave.

A734 Guard Deployment – 24 x 7

- Security stations have been set up at all four NYSIO facilities.
- The new security system (Diamond II) has been configured and rolled out to Wolf, Annex and Washington Ave. offices.
- Guards have been deployed at all facilities.

A737 Migration to New Facility

- A preliminary project plan has been developed.
- Advisory committees have been identified to break down the work of the migration and develop a detailed plan.
- Discussions with third parties are in progress to generate cost estimates for the migration.

NYISO Projects Portfolio Status Report July 2004

A739 Capital Improvements at PCC in Guilderland

- A preliminary report has been written identifying possible modifications to be made.

A649 Oracle Financials 9i Upgrade

- This project includes upgrading the Oracle Financials application to 11i, upgrading the database to 9i, and moving application & data to new hardware.
- Technical Assessment by Solution Beacon for the upgrade was completed on July 19.
- Tentative approval received for proceeding with the upgrade, targeting Q1 2005 production implementation.

A732 Oracle Forms Upgrade to 6i

- FRS approved.
- Legacy / SMD2 Forms 6i server upgrade completed.
- QA / user testing complete - waiting for Change Tracker approval for deployment.
- Launchpad upgrade has been automated and will be sent out via email when Change Tracker is approved.

A658 Facilitated Checkout

- IMO and HQ plan to have checkout service in production by mid-July.
- Project team working with NYISO Operations to identify a convenient time to deploy Facilitated Checkout display to the NYISO control room (possibly June or July timeframe).

A543 UCAP Market Automation

- Project is currently in Phase E – Construction Phase.
- Coding phase extended until end of September.
- QA testing of the delivered builds is underway.

A541 TCC Online Auction Automation

- Project to resume in mid-August.
- Existing requirements to be reviewed.

A706 Develop a Virtual Regional Dispatch

- Scope and project requirements/deliverables are not yet defined.

A664 DSS Enhancements V

- Deployed Alternate Data Delivery (ADD) Phase 1 on July 7.
- MPs would like to have the 4-7 outage windows shifted to an earlier timeframe; team is evaluating potential solutions.
- By providing Daily and Hourly Advisory Customer Statements, this track helps eliminate one of the significant risks for SMD. This also means that DSS is now more tightly coupled with SMD changes.
- MPs response to ADD Phase 1 has been very positive thus far.
- Deployed Grouped Units (Structure changes that impacts DSS) on July 7.

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- Working on enhancements and bug fixes to be deployed on Aug. 11.
- DSS/SMD 2 Integration (Production ready by Sept. 15).
- Completed requirements, working on design and development.
- Quickstart/Mentoring program: 90% completed with Customer Settlement,
- Continued working with Market Monitoring, started sessions with Credit and other internal departments.
- Conduct DSS Introduction and Intermediate trainings (both internal and external sessions).
- Training the trainers on DSS Introduction and Intermediate course.
- Continued working on staffing level for the DSS for remainder of the year.
- Unix resource availability and environment stability continue to be major risks.
- Started 2005 project planning and budgeting process.

A699 MDEX Enhancements

- Scope and requirements have yet to be fully defined.

A704 Operational Information to the Marketplace

- Scope and project requirements/deliverables are not yet defined.

A705 Inter-ISO Standards for Market Messages

- Scope and requirements have yet to be fully defined.

A740 Documentum - IT Implementation

- The FRS and SDS have been approved.
- A detailed project plan has been developed.
- Development is complete and testing is scheduled to begin the week of Aug. 11.
- Knowledge Transfer from contractors to NYISO resources is going very well.
- Deployment is planned for Sept. 23.

A703 SW Development Lifecycle Tools

- Bearing Point was contracted to perform an assessment of SW development lifecycle.

A701 New Technology Initiatives

- Scope and requirements have yet to be fully defined.

A657 OSS SMD2 Support (15-Minute Schedules and ICAP Prescheduling)

- Development complete. Targeted for integration with SMD SAT testing.
- Contingency plan under development to allow deployment to legacy base code.


A702 Enhanced Market Security


- Scope and requirements have yet to be fully defined.

Project ID	Project Description	Priority	Next Deployment	Project Manager	Project Sponsor	Estim Level	Remaining Hours	2004						2005					
								Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
1 -- Priority Projects																			
A725	2004 SAS 70 Type 2 Audit	Exempt		RUBIN	BUDD	N/A	N/A												
A683	BEA Upgrade	1	On Hold	FARNEY	FELL	2	614												
A573	SMD 2.0 Internal NYISO System Implementation	2	09/15/04	SMITH	CALIMANO & KING	2	8,563												
A574	SMD 2.0 ABB System Impementation Support	2	09/15/04	MILLS	CALIMANO & KING	2	16,840												
A688	Inadvertent Package Replacement	2	Deployed	DEVINE	DAVIS	2	189												
A697	AutoSys Replacement	2	Deploy w/ SMD	VETTER	FELL	3	1,247												
A696	SDAC Replacement	2	Deploy w/ SMD	VETTER	FELL	3	671												
A667	Scarcity Pricing in SMD	2	Deploy w/ SMD	RINALDI	KING	2	360												
A710	SMD Web Environment	2		MILLER	FELL	2	292												
A709	Reserve Pickup Reporting	2	Deploy w/ SMD	DEVINE	CALIMANO	3	910												
A577	SMD 2.0 Integration	2		MILLER	FELL	2	525												
A729	MIS / BAS Cluster and Site Failover	2		RINALDI	FELL	1	127												
A690	Grouped Units	3	08/09/04	RINALDI	DAVIS	2	676												
A600	Open Billing Issues	3		DUFFY	DAVIS	1	5,627												
A630	Automate the Voltage Support Service Corrections	3		TBD	DAVIS	N/A	N/A												
A687	Automate Local Black Start Calculation	3		TBD	DAVIS	N/A	N/A												
A636	85/15 Rate Schedule 1 Split - Phase 1	3		TBD	DAVIS	N/A	N/A												
A689	Store Intermediate Billing Calculation Data	3		TBD	DAVIS	N/A	N/A												
A676	Automate DAM Congestion Shortfall Calculation	3		TBD	DAVIS	N/A	N/A												
A619	Controllable Tie Lines Scheduling and Pricing	4		FITTS	CALIMANO	2	4,975												
A707	Process to Enhance the Settlement Cycle	5		TBD	DAVIS	N/A	N/A												
A675	Billing Simulator	6		PELUSO	FELL	1	1,285												
A708	New NYISO Facility	7		FARNEY	RAGOGNA	N/A	N/A												
A724	PCC Modifications - Security	7	09/15/04	FARNEY	RAGOGNA	2	606												
A734	Guard Deployment - 24 x 7	7	10/01/04	FARNEY	RAGOGNA	2	56												

Legend
12-B
Estimate Level

- 1 - Class 100 Estimate Based on Concept of Operations
- 2 - Class 50 Estimate Based on Functional Requirements Specification
- 3 - Class 10 Estimate Based on Detailed Design
- * - Estimate Through Identified Deployments Only





 Duration Based Schedule 














 Resource Limited Schedule 

 Deployment Milestone 

 Estimated FRS Completion 


Project ID	Project Description	Priority	Next Deployment	Project Manager	Project Sponsor	Estim Level	Remaining Hours	2004						2005									
								Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul			
A737	Migration to New Facility	7		FARNEY	RAGOGNA	N/A	N/A																
A739	Capital Improvements of PCC in Guilderland	7		FARNEY	RAGOGNA	N/A	N/A																
A649	Oracle Financials Upgrades	8		RINALDI	FELL	N/A	N/A																
A732	Oracle Forms Upgrade to 6i	9		RINALDI	FELL	1	358																
A658	Facilitated Checkout	10		MARTIN	FELL	2	3,681																
A543	UCAP Market Automation	11		FITTS	KING	3	3,713																
A541	TCC Online Auction Automation	12		FITTS	KING	N/A	N/A																
A706	Develop a Virtual Regional Dispatch	13		VETTER	KING	N/A	N/A																
A664	DSS Market Monitoring Datamart I	14	07/07/04	LE	FELL	3	19,559																
A700	Computer Systems Availability Monitoring	15		RINALDI	FELL	N/A	N/A																
A699	MDEX Enhancements	16		LE	MURPHY	N/A	N/A																
A704	Operational Information to the Marketplace	17		VETTER	KING	N/A	N/A																
A705	Inter-ISO Standards for Market Messages	18		PELUSO	FELL	N/A	N/A																
A740	Documentum - IT Implementation	19	11/05/04	FARNEY	SANFORD	3	1,895																
A703	SW Development Lifecycle Tools	20		FITTS	FELL	N/A	N/A																
A701	New Technology Initiatives	21		PELUSO	FELL	N/A	N/A																
A657	OSS SMD Support (15-Min Schedules and ICAP Prescheduling)	22		PELUSO	FELL	2	479																
A702	Enhanced Market Security	23		FITTS	FELL	N/A	N/A																

Legend	12-B	Estimate Level	Duration Based Schedule 
		1 - Class 100 Estimate Based on Concept of Operations	Resource Limited Schedule 
		2 - Class 50 Estimate Based on Functional Requirements Specification	Deployment Milestone 
		3 - Class 10 Estimate Based on Detailed Design	Estimated FRS Completion 
		* - Estimate Through Identified Deployments Only	

Project ID	Project Description	Priority	Next Deployment	Project Manager	Project Sponsor	Estim Level	Remaining Hours	2004						2005					
								Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
2 -- Studies & Training																			
A680	Annual (2003) New York Area Transmission Review	1	09/14/04	COREY	BROWN	2	N/A												
A037	NYISO/TO Baseline Plan Study - 2001	2		COREY	BROWN	2	N/A												
A591	Calpine (was SkyGen) Waterford	3	08/30/04	COREY	BROWN	2	N/A												
A208	NYSEG Solutions So. Glens Falls Expansion (Reimbursable)	4		COREY	BROWN	2	N/A												
A679	SIS for Liberty Proposed Transmission Expansion	5	09/24/04	COREY	BROWN	2	N/A												
A682	NYISO Transmission Planning Process	6	12/28/04	COREY	BROWN	2	N/A												
A692	NYISO-NYSERDA Wind Generation Integration Study	7	01/06/05	COREY	BROWN	2	N/A												
A726	SRIS for the East Coast Power Linden Gen Expansion Project	8		COREY	BROWN	2	N/A												
A727	SRIS for the East Coast Power Linden VFT Inter-Tie Project	9		COREY	BROWN	2	N/A												
A741	SRIS for the Chautauqua Windpower (Reimbursable)	10		COREY	BROWN	2	N/A												
A742	SRIS - NM-NGrid Leeds-Pleasant Vly Prj.(Reimbursable)	11		COREY	BROWN	2	N/A												
A743	SRIS for the RG&E Ginna Uprate Project (Reimbursable)	12		COREY	BROWN	2	N/A												
A744	SRIS for the Invenergy High Sheldon Windfarm Project	13		COREY	BROWN	2	N/A												
A745	SRIS for the Summer 2004 Mobile Gen. (Reimbursable)	14		COREY	BROWN	2	N/A												
A746	SRIS for the ConEd Mott Haven Subst. (Reimbursable)	15		COREY	BROWN	2	N/A												
A621	Restoration Sensitivity Studies	N/A		WALDELE	CALIMANO	N/A	N/A												
A645	Operations Reactive Study	N/A		WALDELE	CALIMANO	N/A	N/A												
A672	Quebec - New York Interconnection Limit Analysis	N/A		WALDELE	CALIMANO	N/A	N/A												
A673	Athens Generation In-Service Operating Study	N/A		WALDELE	CALIMANO	N/A	N/A												

Legend
12-B
Estimate Level

- 1 - Class 100 Estimate Based on Concept of Operations
- 2 - Class 50 Estimate Based on Functional Requirements Specification
- 3 - Class 10 Estimate Based on Detailed Design
- * - Estimate Through Identified Deployments Only

 Duration Based Schedule 

 Resource Limited Schedule 

 Deployment Milestone 

 Estimated FRS Completion 