

Market Operations Report

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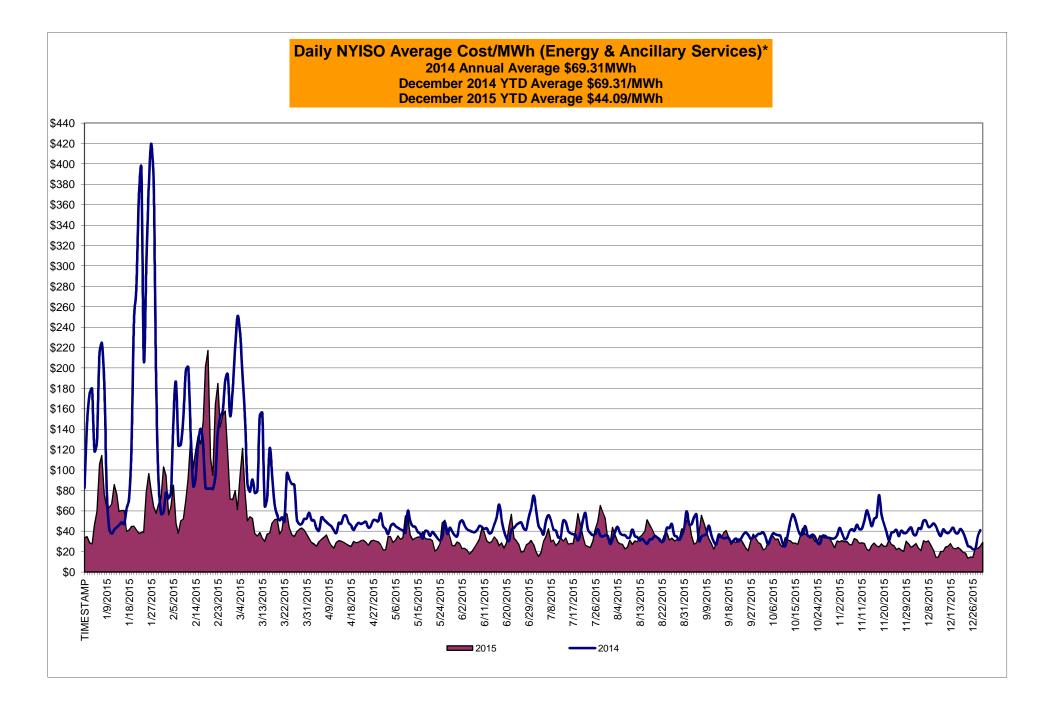
Business Issues Committee Meeting January 13, 2016

Market Performance Highlights for December 2015

- LBMP for December is \$20.90/MWh; lower than \$24.80/MWh in November 2015 and \$38.08/MWh in December 2014.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to November.
 - This is the lowest LBMP for any month during NYISO operation.
- December 2015 average year-to-date monthly cost of \$44.09/MWh is a 36% decrease from \$69.31/MWh in December 2014.
- Average daily sendout is 408 GWh/day in December; higher than 396 GWh/day in November 2015 and lower than 433 GWh/day in December 2014.
- Natural gas and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$1.60/MMBtu, down from \$1.80/MMBtu in November.
 - Natural gas prices are down 51% year-over-year
 - Lowest monthly average gas price in NYISO operation.
 - Jet Kerosene Gulf Coast was \$8.01/MMBtu, down from \$9.80/MMBtu in November.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$8.13/MMBtu, down from \$10.06/MMBtu in November.
 - Distillate prices are down 42% year-over-year
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.06)/MWh; lower than \$0.40/MWh in November.
 - The Local Reliability Share is \$0.12/MWh, lower than \$0.19 in November.
 - The Statewide Share is (\$0.18)/MWh, lower than \$0.21/MWh in November.
 - TSA \$ per NYC MWh is \$0.00/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than November.

1/11/2016

Market Mitigation and Analysis



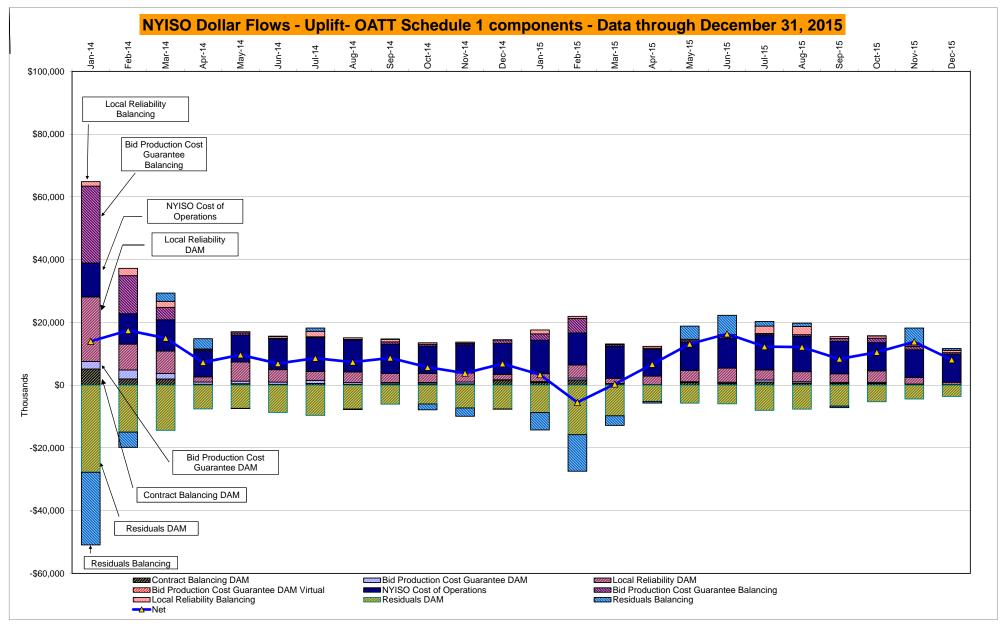
* Excludes ICAP payments.

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

2015	January	February	March	<u>April</u>	May	June	July	August	<u>September</u>	October	November	December
LBMP	59.61	114.37	52.09	28.36	32.98	28.20	34.77	33.09	34.39	30.03	24.80	20.90
NTAC	0.32	0.35	0.41	0.64	0.56	0.80	0.54	0.60	0.73	0.54	0.68	1.06
Reserve	0.27	0.37	0.56	0.36	0.38	0.24	0.27	0.20	0.28	0.28	0.47	0.60
Regulation	0.10	0.18	0.11	0.12	0.10	0.13	0.12	0.12	0.10	0.12	0.13	0.13
NYISO Cost of Operations	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.69
Uplift	(0.48)	(1.08)	(0.68)	(0.15)	0.26	0.33	0.04	0.03	(0.14)	0.11	0.40	(0.06)
Uplift: Local Reliability Share	0.25	0.33	0.13	0.27	0.30	0.37	0.35	0.36	0.22	0.33	0.19	0.12
Uplift: Statewide Share	(0.73)	(1.41)	(0.81)	(0.42)	(0.05)	(0.04)	(0.30)	(0.33)	(0.37)	(0.22)	0.21	(0.18)
Voltage Support and Black Start	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38
Avg Monthly Cost	60.91	115.27	53.58	30.41	35.37	30.79	36.84	35.14	36.45	32.17	27.58	23.70
Avg YTD Cost	60.91	87.74	76.64	66.82	60.96	56.02	52.77	50.20	48.60	47.18	45.66	44.09
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.17	0.50	0.07	0.06	0.01	0.00	0.00	0.00
2014	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	183.36	123.19	109.58	46.09	40.30	43.39	43.97	34.48	37.63	35.61	42.89	38.08
NTAC	0.56	0.64	0.39	1.18	0.69	0.78	0.43	0.41	0.50	0.57	0.68	0.86
Reserve	0.78	0.49	0.56	0.46	0.28	0.27	0.26	0.26	0.29	0.48	0.37	0.23
Regulation	0.27	0.21	0.22	0.13	0.12	0.12	0.12	0.13	0.11	0.12	0.11	0.08
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Uplift	0.22	0.56	0.35	(0.09)	0.07	(0.21)	(0.26)	(0.19)	(0.20)	(0.24)	(0.40)	(0.20)
Uplift: Local Reliability Share	1.43	0.75	0.62	0.15	0.51	0.32	0.29	0.27	0.26	0.26	0.24	0.13
Uplift: Statewide Share	(1.21)	(0.19)	(0.27)	(0.24)	(0.44)	(0.53)	(0.55)	(0.45)	(0.46)	(0.50)	(0.64)	(0.33)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	186.24	126.14	112.15	48.82	42.51	45.39	45.57	36.14	39.38	37.59	44.71	40.09
Avg YTD Cost	186.24	157.93	142.77	121.97	108.36	97.84	89.46	82.60	78.07	74.63	72.06	69.31
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.00	0.42	0.00	0.00	0.00
2013	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	79.77	85.76	48.94	44.47	52.21	50.17	68.49	40.81	44.24	39.85	43.30	66.41
NTAC	0.79	0.83	0.76	0.90	0.85	0.86	0.66	0.28	0.57	0.87	1.08	0.59
Reserve	0.38	0.44	0.43	0.36	0.49	0.34	0.50	0.32	0.38	0.42	0.38	0.44
Regulation	0.13	0.13	0.10	0.11	0.09	0.13	0.11	0.13	0.13	0.16	0.13	0.12
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Uplift	0.21	(0.15)	(0.33)	0.02	0.41	0.49	2.06	0.03	(0.05)	0.18	(0.07)	(0.25)
Uplift: Local Reliability Share	0.44	0.40	0.19	0.37	0.58	0.81	1.27	0.49	0.31	0.38	0.19	0.12
Uplift: Statewide Share	(0.23)	(0.55)	(0.52)	(0.35)	(0.17)	(0.31)	0.79	(0.46)	(0.36)	(0.19)	(0.25)	(0.37)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	82.34	88.06	50.96	46.91	55.10	53.05	72.87	42.62	46.31	42.54	45.88	68.36
Avg YTD Cost	82.34	85.08	74.02	67.80	65.46	63.36	65.10	62.27	60.74	59.30	58.24	59.13
TSA \$ per NYC MWh	0.00	0.00	0.00	0.04	0.58	0.61	1.52	0.43	0.22	0.01	0.00	0.00
* Excludes ICAP payments.										Data refle	ects true-ups thru A	August 2015.

* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 1/7/2016 8:57 AM

Data reflects true-ups thru August 2015.



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 consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

NYISO Markets Transactions

2015	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	September	<u>October</u>	November	-
Day Ahead Market MWh	15,961,306	14,967,371	15,059,207	12,589,321	13,291,917	14,277,299	16,573,027	16,333,932	14,740,907	13,546,033	13,338,332	
DAM LSE Internal LBMP Energy Sales	55%	54%	53%	55%	57%	57%	62%	61%	58%	53%	53%	55%
DAM External TC LBMP Energy Sales	5%	6%	6%	4%	2%	1%	1%	1%	3%	6%	5%	1%
DAM Bilateral - Internal Bilaterals	35%	33%	33%	33%	35%	33%	30%	31%	31%	34%	33%	35%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	3%	5%	5%	6%	4%	5%	4%	4%	5%	5%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	1%	2%	1%	1%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	0%	1%	1%	1%	0%	2%	2%	2%	2%	1%	2%	2%
Balancing Energy Market MWh	-650,944	-296,616	-396,739	-409,205	-331,091	-549,794	-505,637	-228,461	-31,706	-595,704	-684,006	-630,681
Balancing Energy LSE Internal LBMP Energy Sales	-149%	-247%	-192%	-147%	-142%	-106%	-120%	-139%	-357%	-116%	-111%	-115%
Balancing Energy External TC LBMP Energy Sales	30%	113%	64%	36%	35%	16%	25%	50%	115%	13%	12%	17%
Balancing Energy Bilateral - Internal Bilaterals	13%	14%	19%	5%	6%	6%	13%	25%	251%	7%	5%	5%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	8%	12%	12%	10%	4%	3%	8%	48%	5%	5%	7%
Balancing Energy Bilateral - Wheel Through Bilaterals	0%	12%	-4%	-5%	-9%	-22%	-21%	-44%	-157%	-9%	-12%	-13%
Transactions Summary												
LBMP	58%	59%	57%	57%	58%	57%	61%	61%	61%	56%	56%	54%
Internal Bilaterals	37%	34%	35%	35%	36%	35%	32%	32%	32%	36%	35%	37%
Import Bilaterals	3%	5%	5%	6%	4%	5%	5%	5%	5%	5%	6%	6%
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	2%
Wheels Through	0%	1%	1%	0%	0%	1%	1%	1%	1%	0%	1%	1%
Market Share of Total Load												
Day Ahead Market	104.3%	102.0%	102.7%	103.4%	102.6%	104.0%	103.1%	101.4%	100.2%	104.6%	105.4%	104.9%
Balancing Energy +	-4.3%	-2.0%	-2.7%	-3.4%	-2.6%	-4.0%	-3.1%	-1.4%	-0.2%	-4.6%	-5.4%	-4.9%
Total MWH	15,310,362	14,670,755	14,662,468	12,180,116	12,960,826	13,727,505	16,067,390	16,105,471	14,709,201	12,950,329	12,654,326	12,989,320
Average Daily Energy Sendout/Month GWh	462	481	436	387	409	450	512	511	473	389	396	408
<u>2014</u>	<u>January</u>	February	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	October	November	December
Day Ahead Market MWh	16,034,264	14,409,515	14,633,570	12,101,747	12,984,458	14,719,929	16,528,338	15,536,610	14,312,509	13,684,158	13,945,509	14,992,656
DAM LSE Internal LBMP Energy Sales	52%	50%	53%	56%	53%	54%	58%	57%	56%	54%	54%	54%
DAM External TC LBMP Energy Sales	5%	7%	6%	3%	2%	3%	1%	0%	1%	2%	5%	5%
DAM Bilateral - Internal Bilaterals	36%	36%	35%	33%	38%	36%	34%	35%	36%	38%	36%	36%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	5%	4%	4%	3%	3%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	1%	2%	2%	1%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	0%	0%
Balancing Energy Market MWh	-249,484	-298,340	-116,173	54,298	-510,467	-558,413	-854,501	-764,108	-674,285	-999,342	-750,627	-705,848
Balancing Energy LSE Internal LBMP Energy Sales	-232%	-203%	-294%	-190%	-133%	-114%	-116%	-117%	-129%	-124%	-134%	-137%
Balancing Energy External TC LBMP Energy Sales	105%	76%	97%	207%	21%	22%	18%	15%	24%	14%	20%	28%
Balancing Energy Bilateral - Internal Bilaterals	20%	26%	69%	27%	3%	7%	4%	7%	7%	7%	9%	4%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	12%	0%	3%	0%	0%	0%	2%	1%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	11%	6%	25%	67%	4%	3%	2%	2%	3%	3%	5%	3%
Balancing Energy Bilateral - Wheel Through Bilaterals	-4%	-6%	-10%	-12%	1%	-18%	-8%	-7%	-7%	-1%	0%	1%
Transactions Summary												
LBMP	56%	56%	57%	59%	53%	55%	57%	55%	55%	52%	55%	56%
Internal Bilaterals	37%	37%	36%	33%	39%	38%	36%	37%	38%	42%	39%	38%
Import Bilaterals	5%	5%	5%	6%	5%	5%	5%	5%	5%	4%	4%	3%
Export Bilaterals	2%	1%	2%	2%	2%	1%	1%	2%	2%	2%	2%	2%
Expert Bildtordio	270			0%	1%	1%	1%	1%	1%	0%	1%	0%
Wheels Through	2% 1%	1%	1%	0%	170	170						
•		1%	1%	0%	170	.,,,						
Wheels Through		<u>1%</u> 102.1%	<u>1%</u> 100.8%	99.6%	104.1%	103.9%	105.5%	105.2%	104.9%	107.9%	105.7%	104.9%
Wheels Through Market Share of Total Load	1%						105.5% -5.5%	105.2% -5.2%	104.9% -4.9%	107.9% -7.9%	105.7% -5.7%	
Wheels Through <u>Market Share of Total Load</u> Day Ahead Market	<u>1%</u> 101.6%	102.1% -2.1%	100.8% -0.8%	99.6%	104.1%	103.9%			-4.9%		-5.7%	104.9% -4.9% 14,286,808

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

Market Mitigation and Analysis Prepared: 1/7/2016 9:04 AM

Virtual Transactions are not reflected in this chart.

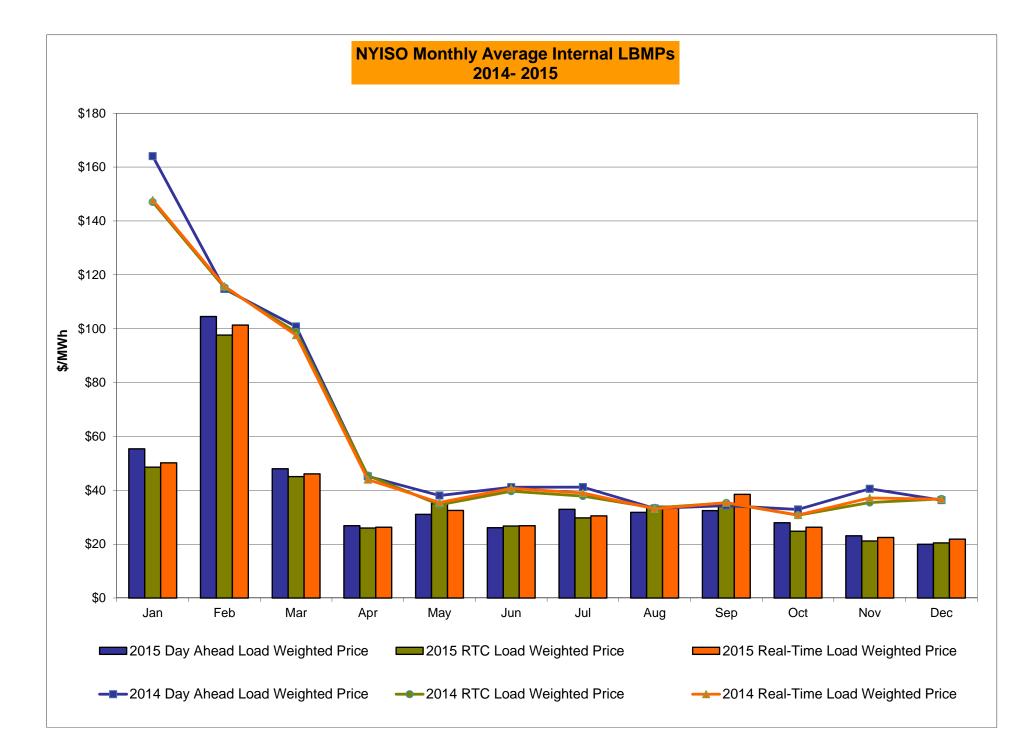
NYISO Markets 2015 Energy Statistics

	January	February	March	<u>April</u>	May	June	July	August	<u>September</u>	<u>October</u>	November [December
DAY AHEAD LBMP												
Price *	\$53.35	\$101.48	\$46.59	\$26.07	\$29.21	\$24.30	\$30.27	\$30.01	\$30.18	\$27.11	\$22.18	\$18.94
Standard Deviation	\$24.61	\$48.85	\$21.51	\$6.73	\$13.44	\$11.96	\$17.67	\$12.05	\$13.37	\$7.64	\$7.94	\$8.41
Load Weighted Price **	\$55.40	\$104.52	\$48.01	\$26.84	\$31.08	\$26.12	\$32.94	\$31.81	\$32.46	\$27.95	\$23.12	\$19.97
RTC LBMP												
Price *	\$46.98	\$95.06	\$43.43	\$25.11	\$32.85	\$24.73	\$27.51	\$31.83	\$32.39	\$23.97	\$20.07	\$19.34
Standard Deviation	\$22.84	\$47.55	\$29.42	\$12.31	\$35.40	\$24.71	\$21.84	\$23.25	\$22.99	\$10.56	\$15.66	\$14.23
Load Weighted Price **	\$48.59	\$97.62	\$45.10	\$26.00	\$35.08	\$26.73	\$29.76	\$34.04	\$34.99	\$24.79	\$21.17	\$20.46
REAL TIME LBMP												
Price *	\$48.51	\$98.83	\$44.38	\$25.46	\$30.39	\$23.96	\$27.71	\$31.54	\$34.82	\$25.50	\$21.33	\$20.75
Standard Deviation	\$25.99	\$52.53	\$29.07	\$12.66	\$31.69	\$31.14	\$23.42	\$26.51	\$34.85	\$12.56	\$18.76	\$19.00
Load Weighted Price **	\$50.18	\$101.34	\$46.10	\$26.28	\$32.52	\$26.86	\$30.50	\$34.05	\$38.48	\$26.29	\$22.47	\$21.86
Average Daily Energy Sendout/Month GWh	462	481	436	387	409	450	512	511	473	389	396	408

NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	July	August	<u>September</u>	<u>October</u>	November [December
DAY AHEAD LBMP Price *	\$155.11	\$110.69	\$97.07	\$44.16	\$36.61	\$39.17	\$38.82	\$31.78	\$32.49	\$31.65	\$39.19	\$35.12
Standard Deviation	\$121.52	\$50.86	\$59.89	\$8.90	\$10.99	\$12.29	\$15.56	\$9.90	\$11.59	\$9.77	\$13.38	\$11.21
Load Weighted Price **	\$164.06	\$114.77	\$100.81	\$45.19	\$38.05	\$41.14	\$41.18	\$33.28	\$34.31	\$32.89	\$40.57	\$36.33
RTC LBMP												
Price *	\$138.41	\$110.71	\$94.71	\$44.00	\$33.16	\$37.34	\$35.32	\$31.74	\$32.89	\$29.23	\$34.27	\$34.99
Standard Deviation	\$125.42	\$72.22	\$97.72	\$27.44	\$17.51	\$25.39	\$24.90	\$23.34	\$33.68	\$20.45	\$14.23	\$35.81
Load Weighted Price **	\$147.06	\$115.31	\$98.80	\$45.48	\$34.63	\$39.64	\$37.85	\$33.48	\$35.31	\$30.74	\$35.46	\$36.79
<u>REAL TIME LBMP</u>												
Price *	\$137.90	\$111.51	\$93.37	\$42.79	\$34.06	\$38.23	\$35.97	\$31.21	\$32.50	\$29.36	\$36.01	\$34.80
Standard Deviation	\$122.32	\$70.35	\$89.05	\$19.38	\$17.15	\$23.33	\$27.27	\$18.18	\$33.51	\$21.14	\$17.99	\$42.67
Load Weighted Price **	\$147.77	\$115.80	\$97.58	\$43.97	\$35.46	\$40.71	\$39.00	\$33.13	\$35.42	\$30.81	\$37.17	\$36.69
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

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

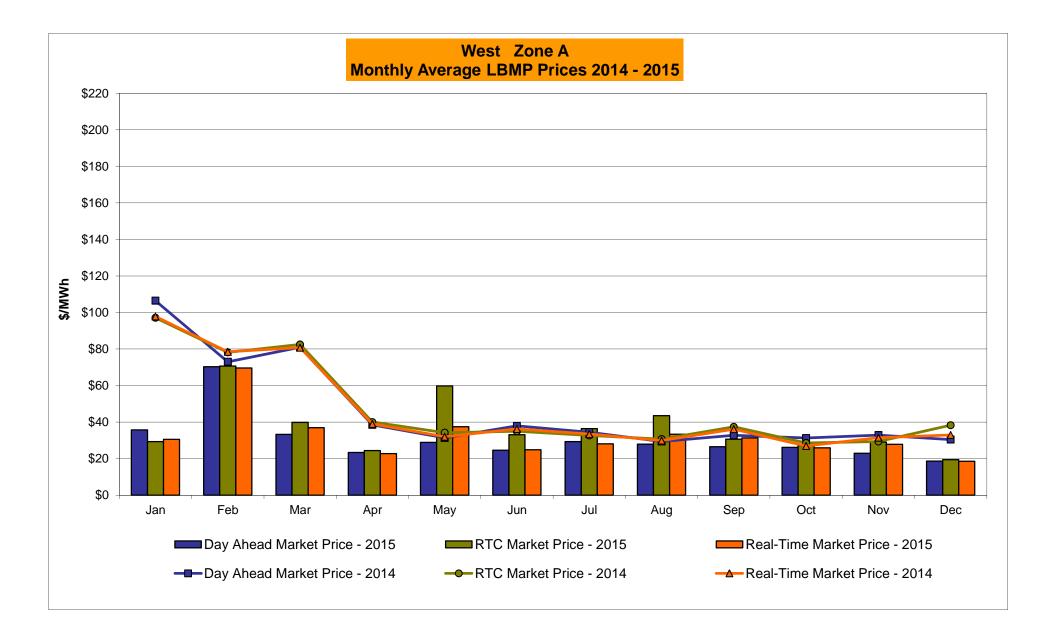


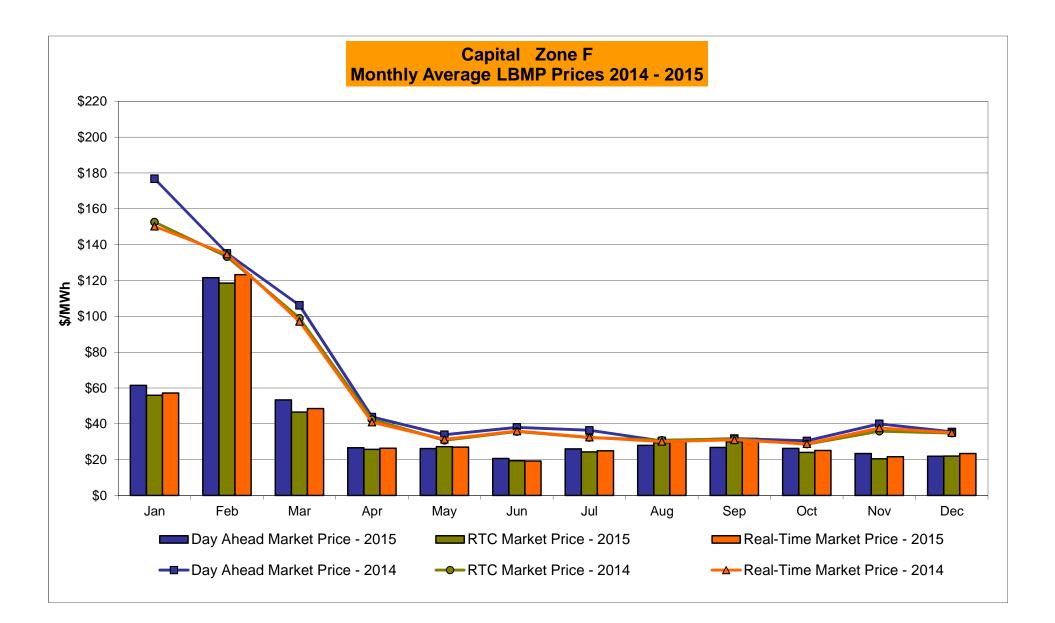
December 2015 Zonal LBMP Statistics for NYISO (\$/MWh)

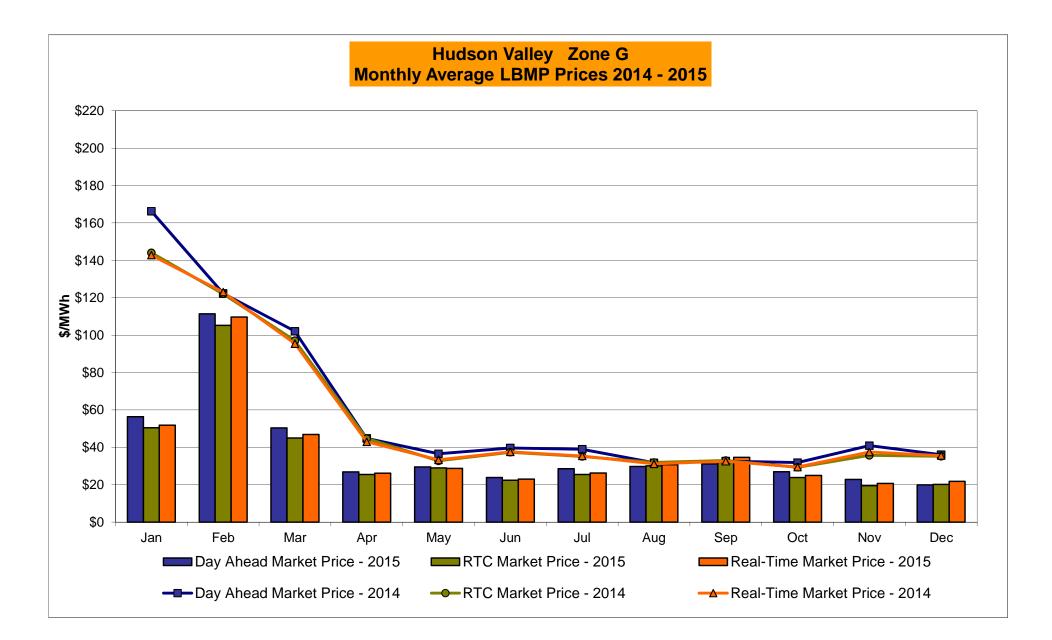
	WEST <u>Zone A</u>	GENESEE Zone B	NORTH Zone D	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE Zone I	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP Unweighted Price *	18.61	12.78	11.64	13.65	13.64	21.93	19.95	20.19	20.18	20.24	23.87
Standard Deviation	12.86	6.97	6.86	7.49	7.43	8.51	8.24	8.32	8.31	8.34	9.67
Standard Deviation	12.00	0.97	0.00	7.45	7.45	0.51	0.24	0.52	0.51	0.54	5.07
RTC LBMP											
Unweighted Price *	19.44	13.16	12.19	14.25	14.19	22.03	20.16	20.35	20.32	20.44	24.54
Standard Deviation	42.66	12.49	13.21	13.16	12.75	13.38	12.68	12.78	12.75	12.77	22.26
REAL TIME LBMP											
Unweighted Price *	18.52	14.98	13.93	15.90	16.03	23.40	21.83	22.02	21.99	22.26	26.21
Standard Deviation	28.06	18.23	18.75	18.30	18.56	19.01	18.86	18.97	18.93	19.12	27.31

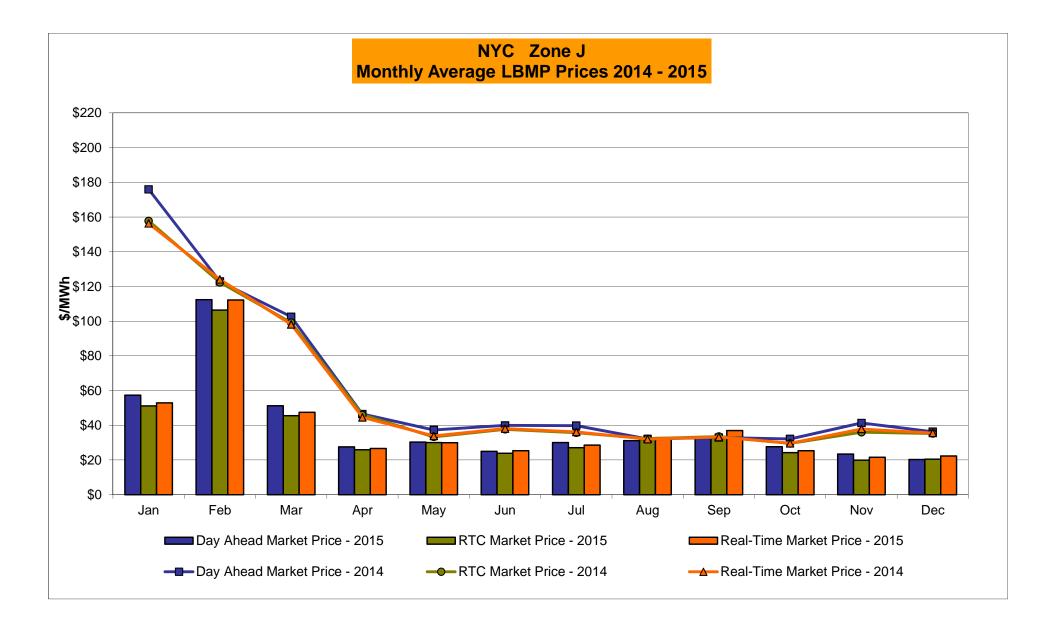
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						Controllable	Controllable	Controllable	Controllable	Controllable	Controllable
	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	<u>Zone P</u>	<u>Zone N</u>	<u>Line</u>	Line	<u>Line</u>	<u>Line</u>	Line	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	12.09	11.96	11.96	18.17	21.64	23.74	22.70	23.04	19.77	20.25	11.57
Standard Deviation	6.30	6.94	6.94	8.35	8.74	9.40	8.31	8.93	7.68	8.35	6.80
RTC LBMP											
Unweighted Price *	12.58	12.49	12.49	18.82	22.74	24.66	22.39	21.47	20.15	20.60	12.27
Standard Deviation	15.04	15.43	15.43	16.39	21.49	24.82	18.67	18.26	15.17	15.41	15.41
REAL TIME LBMP											
Unweighted Price *	14.99	14.26	14.26	20.16	24.10	26.93	23.29	23.05	22.21	22.27	13.88
Standard Deviation	17.96	20.28	20.28	20.18	20.85	30.96	20.42	21.18	20.68	20.75	18.58

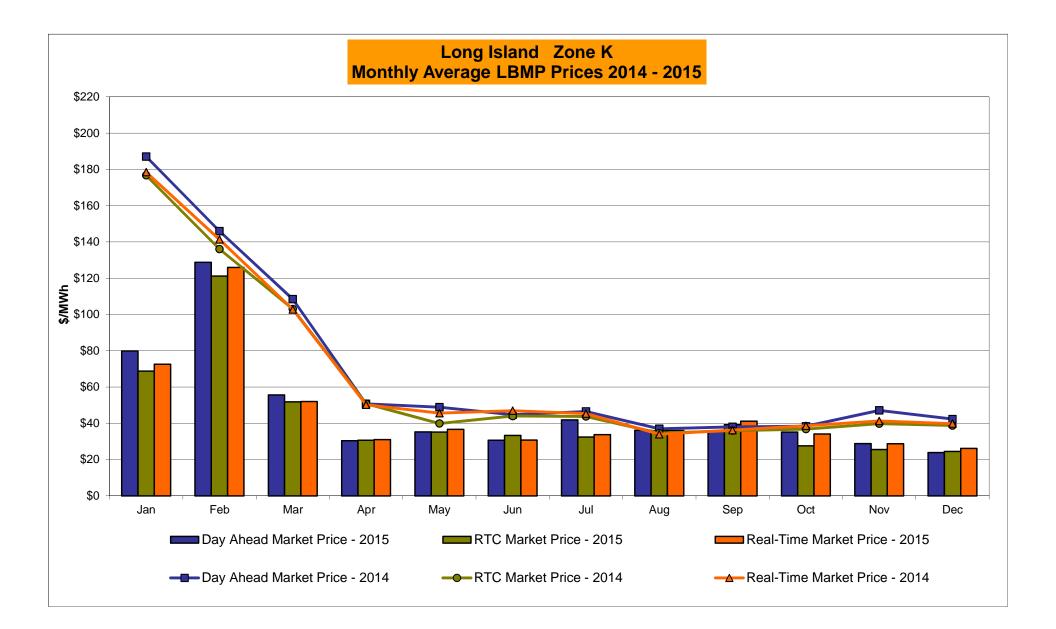
* Straight LBMP averages

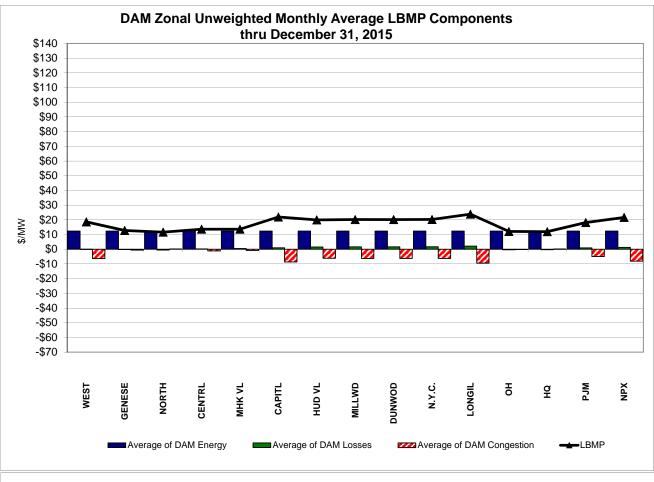


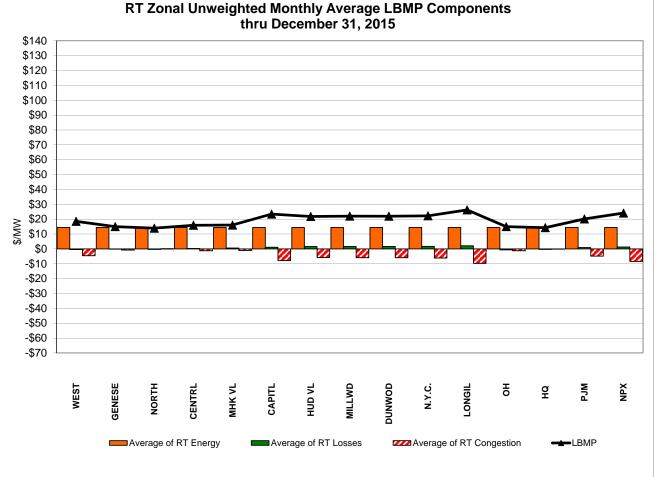






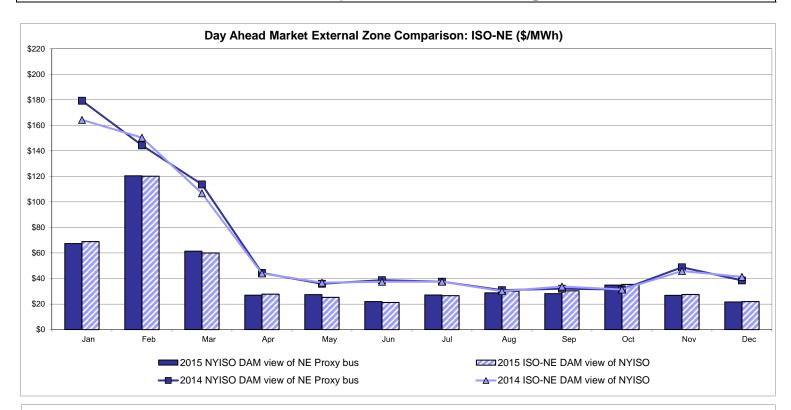


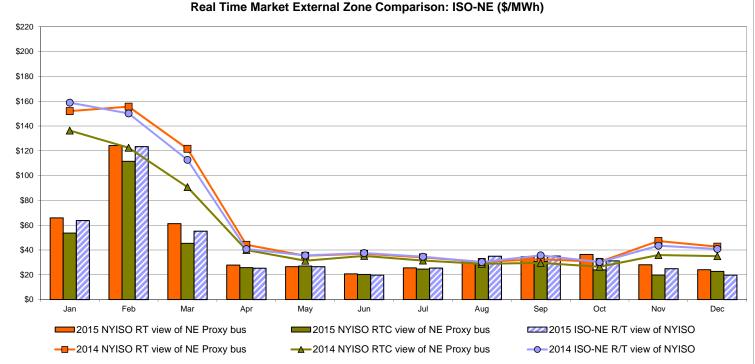


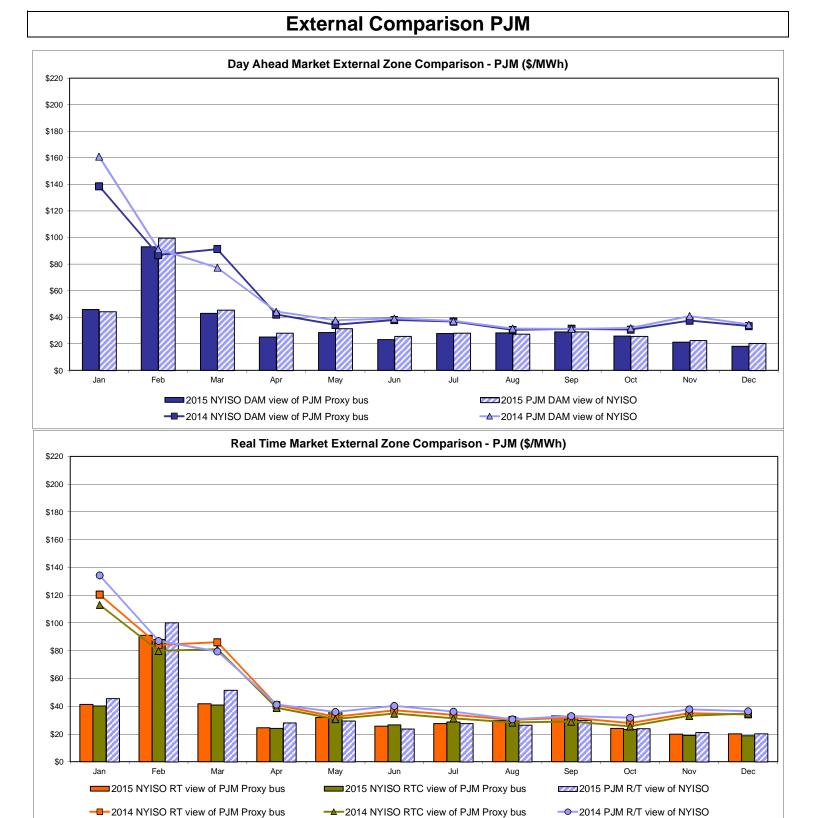


Market Mitigation and Analysis Prepared:1/4/2016 1:25 PM

External Comparison ISO-New England

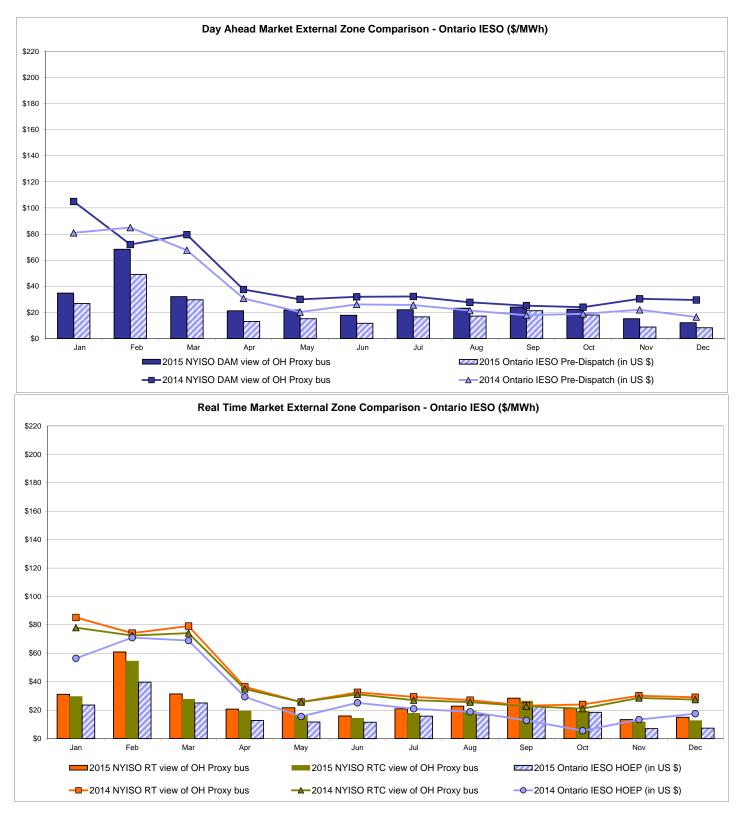




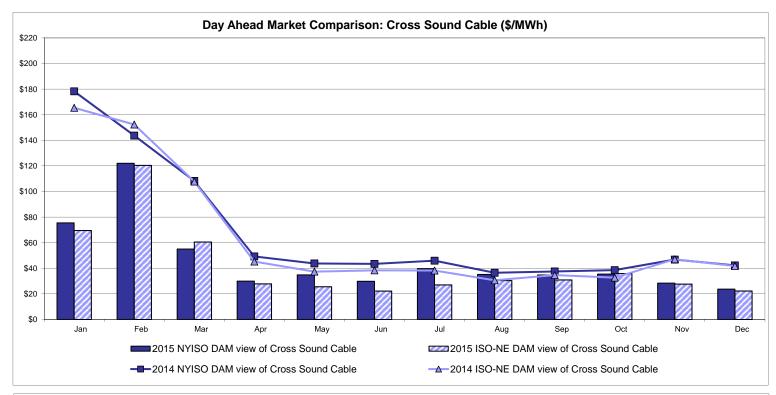


Market Mitigation and Analysis Prepared: 1/4/2016 11:28 AM

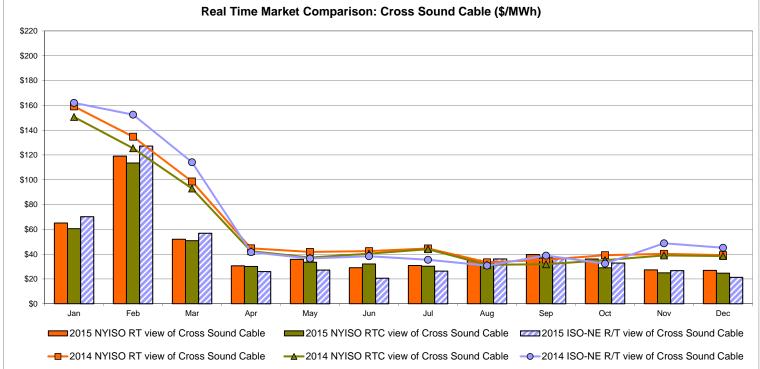
External Comparison Ontario IESO



Notes: Exchange factor used for December 2015 was 0.7292 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



External Controllable Line: Cross Sound Cable (New England)

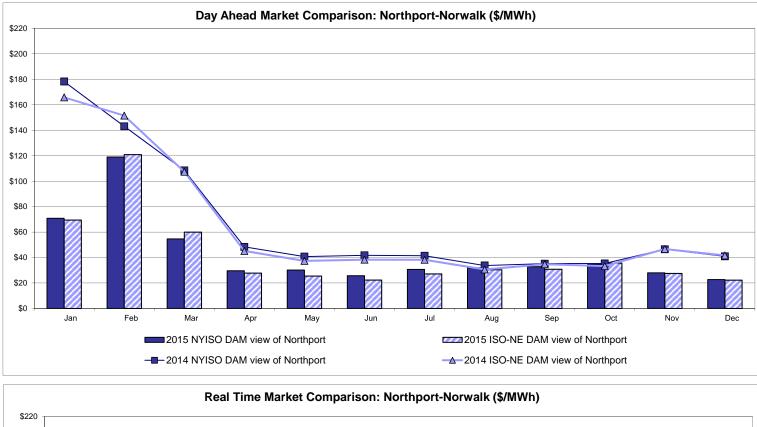


Note:

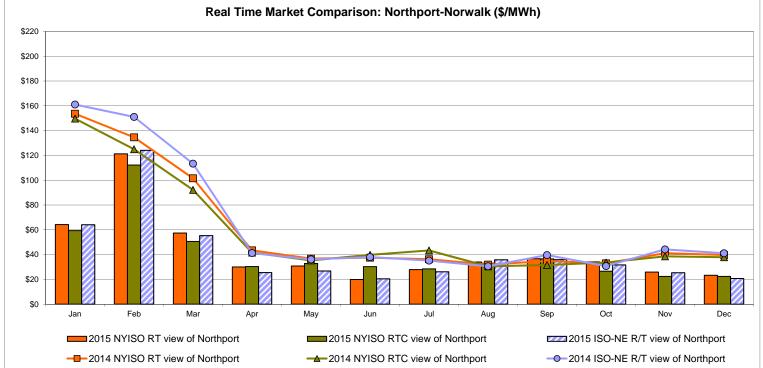
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.

The DAM and R/T prices at the CSC interface are used for NYISO.



External Controllable Line: Northport - Norwalk (New England)

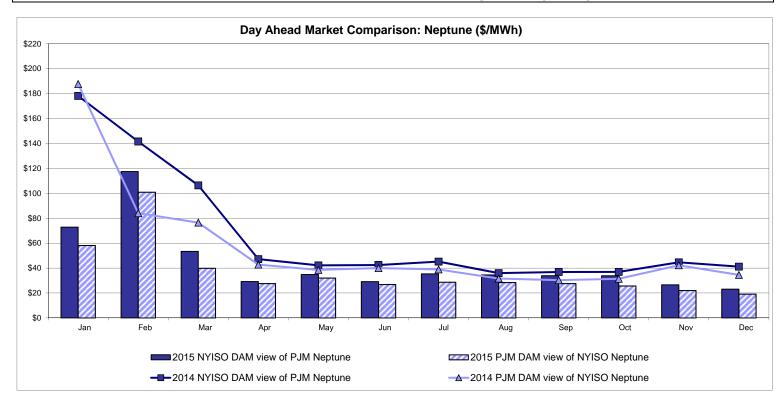


Note:

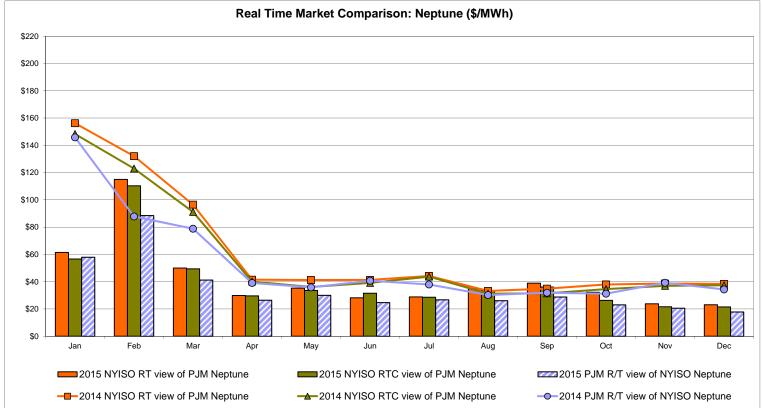
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.

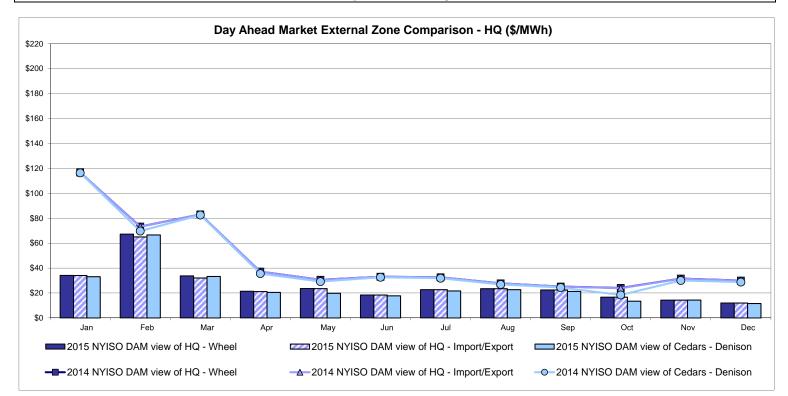
The DAM and R/T prices at the 1385 interface are used for NYISO.

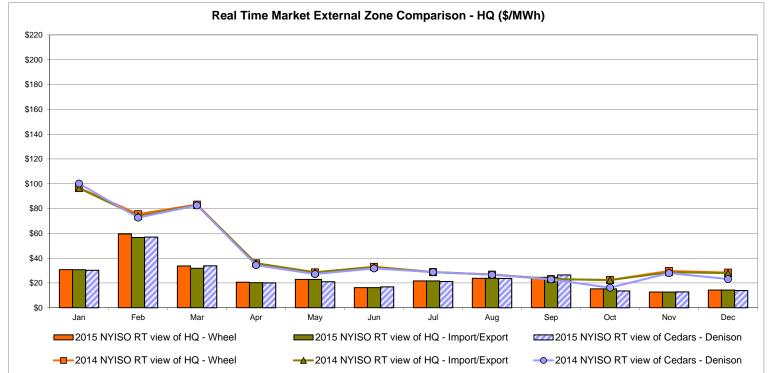


External Controllable Line: Neptune (PJM)



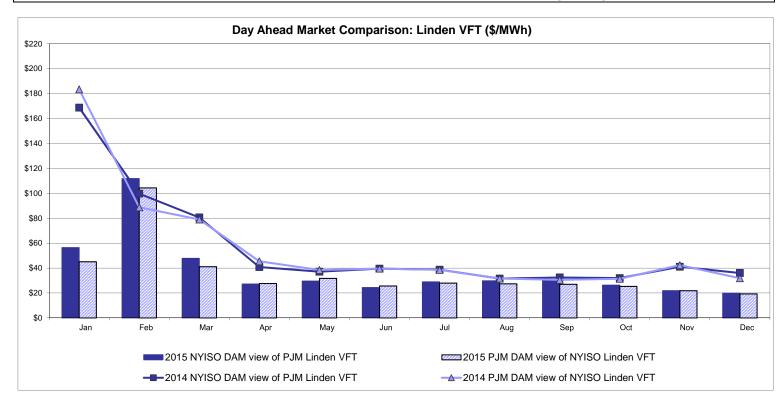
External Comparison Hydro-Quebec



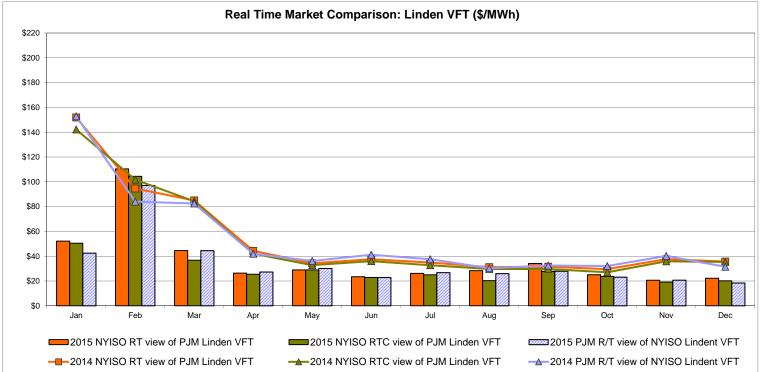


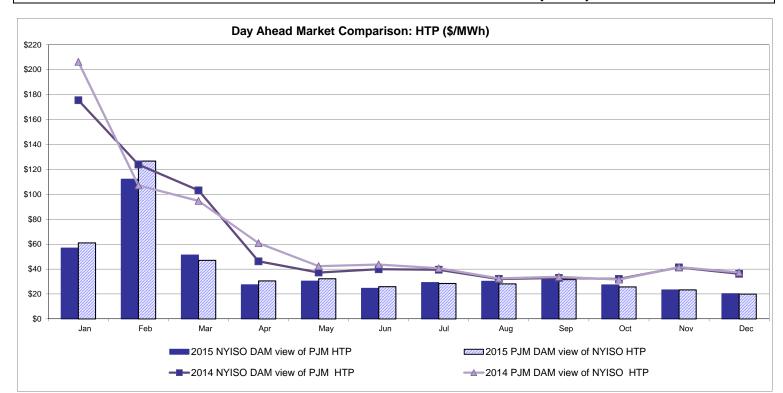
Note:

Hydro-Quebec Prices are unavailable.

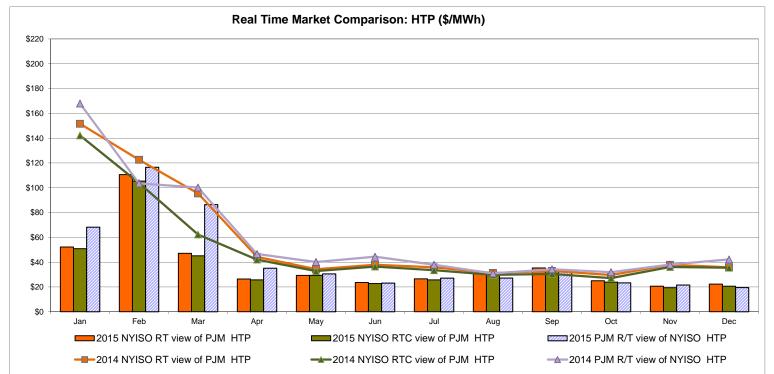


External Controllable Line: Linden VFT (PJM)





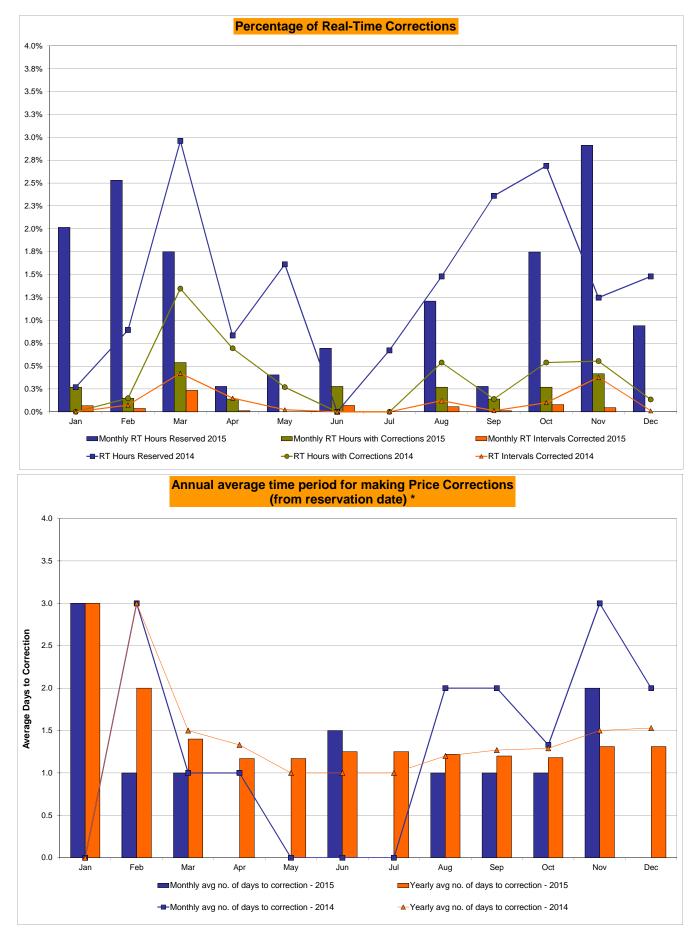
External Controllable Line: Hudson (PJM)



NYISO Real Time Price Correction Statistics

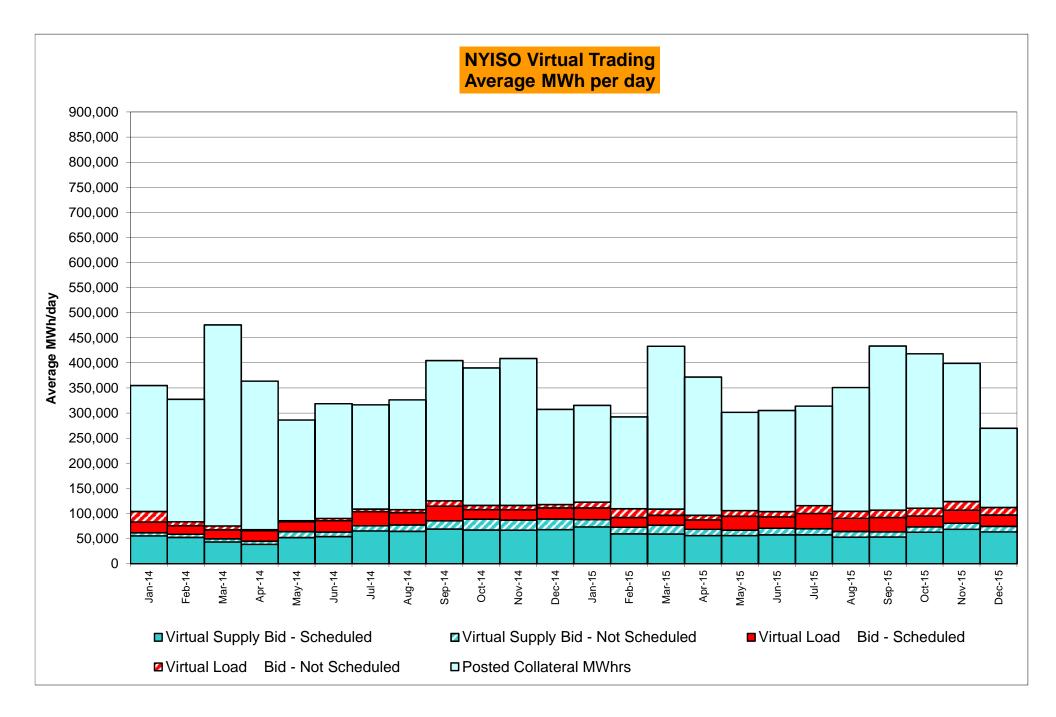
2015		January	February	March	April	May	June	July	August	September	October	November	December
Hour Corrections													
Number of hours with corrections	in the month	2	1	4	1	0	2	0	2	1	2	3	0
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours with corrections	in the month	0.27%	0.15%	0.54%	0.14%	0.00%	0.28%	0.00%	0.27%	0.14%	0.27%	0.42%	0.00%
% of hours with corrections	year-to-date	0.27%	0.21%	0.32%	0.28%	0.22%	0.23%	0.20%	0.21%	0.20%	0.21%	0.22%	0.21%
Interval Corrections									_		_		
Number of intervals corrected	in the month	6	3	21 9.005	1	0	6	0	5 8.987	1	7 9.008	4	0
Number of intervals	in the month in the month	9,066 0.07%	8,231 0.04%	9,005 0.23%	8,696 0.01%	9,032 0.00%	8,731 0.07%	9,025 0.00%	8,987 0.06%	8,728 0.01%	9,008 0.08%	8,743 0.05%	8,975 0.00%
% of intervals corrected	in the month		0.04%	0.23%	0.01%		0.07%	0.00%	0.00%	0.01%	0.00%	0.05%	0.00%
% of intervals corrected	year-to-date	0.07%	0.05%	0.11%	0.09%	0.07%	0.07%	0.06%	0.06%	0.05%	0.06%	0.06%	0.05%
Hours Reserved					_	_	_	-	_				_
Number of hours reserved	in the month	15	17	13	2	3	5	0	9	2	13	21	7
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	2.02%	2.53%	1.75%	0.28%	0.40%	0.69%	0.00%	1.21%	0.28%	1.75%	2.91%	0.94%
% of hours reserved	year-to-date	2.02%	2.26%	2.08%	1.63%	1.38%	1.27%	1.08%	1.10%	1.01%	1.08%	1.25%	1.22%
Days to Correction *													
Avg. number of days to correction	in the month	3.00	1.00	1.00	0.00	0.00	1.50	0.00	1.00	1.00	1.00	2.00	0.00
Avg. number of days to correction	year-to-date	3.00	2.00	1.40	1.17	1.17	1.25	1.25	1.22	1.20	1.18	1.31	1.31
Days Without Corrections													
Days without corrections	in the month	30	27	28	29	31	28	31	30	29	30	28	31
Days without corrections	year-to-date	30	57	85	114	145	173	204	234	263	293	321	352
<u>2014</u>		<u>January</u>	February	March	April	May	June	July	August	September	<u>October</u>	November	December
2014 Hour Corrections		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
	in the month	<u>January</u> 0	<u>February</u> 1	<u>March</u> 10	<u>April</u> 5	<u>May</u> 2	<u>June</u> 0	<u>July</u> 0	<u>August</u> 4	<u>September</u> 1	<u>October</u> 4	<u>November</u> 4	<u>December</u> 1
Hour Corrections	in the month in the month		<u>.</u>										
Hour Corrections Number of hours with corrections		0	1	10	5	2	0	0	4	1	4	4	1
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	1 672	10 743	5 720	2 744	0 720	0 744	4 744	1 720	4 744	4 721	1 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	1 672 0.15%	10 743 1.35%	5 720 0.69%	2 744 0.27%	0 720 0.00%	0 744 0.00%	4 744 0.54%	1 720 0.14%	4 744 0.54%	4 721 0.55%	1 744 0.13%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	0 744 0.00% 0.00%	1 672 0.15% 0.07%	10 743 1.35% 0.51% 38	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35% 0	4 744 0.54% <u>0.38%</u> 11	1 720 0.14% 0.35% 1	4 744 0.54% <u>0.37%</u> 9	4 721 0.55% 0.39% 33	1 744 0.13% <u>0.37%</u> 1
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date	0 744 0.00% 0.00% 0 9,232	1 672 0.15% 0.07% 6 8,205	10 743 1.35% 0.51% 38 9,023	5 720 0.69% 0.56% 13 8,720	2 744 0.27% 0.50% 2 9,030	0 720 0.00% 0.41% 0 8,729	0 744 0.00% 0.35% 0 8,999	4 744 0.54% <u>0.38%</u> 11 8,975	1 720 0.14% <u>0.35%</u> 1 8,779	4 744 0.54% <u>0.37%</u> 9 9,026	4 721 0.55% 0.39% 33 8,763	1 744 0.13% <u>0.37%</u> 1 9,030
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	0 744 0.00% 0.00%	1 672 0.15% 0.07%	10 743 1.35% 0.51% 38	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35% 0	4 744 0.54% <u>0.38%</u> 11	1 720 0.14% 0.35% 1	4 744 0.54% <u>0.37%</u> 9	4 721 0.55% 0.39% 33	1 744 0.13% <u>0.37%</u> 1
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,232	1 672 0.15% 0.07% 6 8,205	10 743 1.35% 0.51% 38 9,023	5 720 0.69% 0.56% 13 8,720	2 744 0.27% 0.50% 2 9,030	0 720 0.00% 0.41% 0 8,729	0 744 0.00% 0.35% 0 8,999	4 744 0.54% <u>0.38%</u> 11 8,975	1 720 0.14% <u>0.35%</u> 1 8,779	4 744 0.54% <u>0.37%</u> 9 9,026	4 721 0.55% 0.39% 33 8,763	1 744 0.13% <u>0.37%</u> 1 9,030
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% <u>0.00%</u> 0 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% <u>0.00%</u> 0 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Mumber of intervals corrected Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% 0.11%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Mumber of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11 744
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Mumber of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours reserved Number of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96%	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Mumber of neuronal corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours reserved % of hours reserved % of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96%	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48%
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39%	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38%
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved Days to Correction * Avg. number of days to correction Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00 1.50	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00 1.33	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00 1.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00 1.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00 1.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00 1.20	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00 1.27	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33 1.29	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00 1.50	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00 1.53

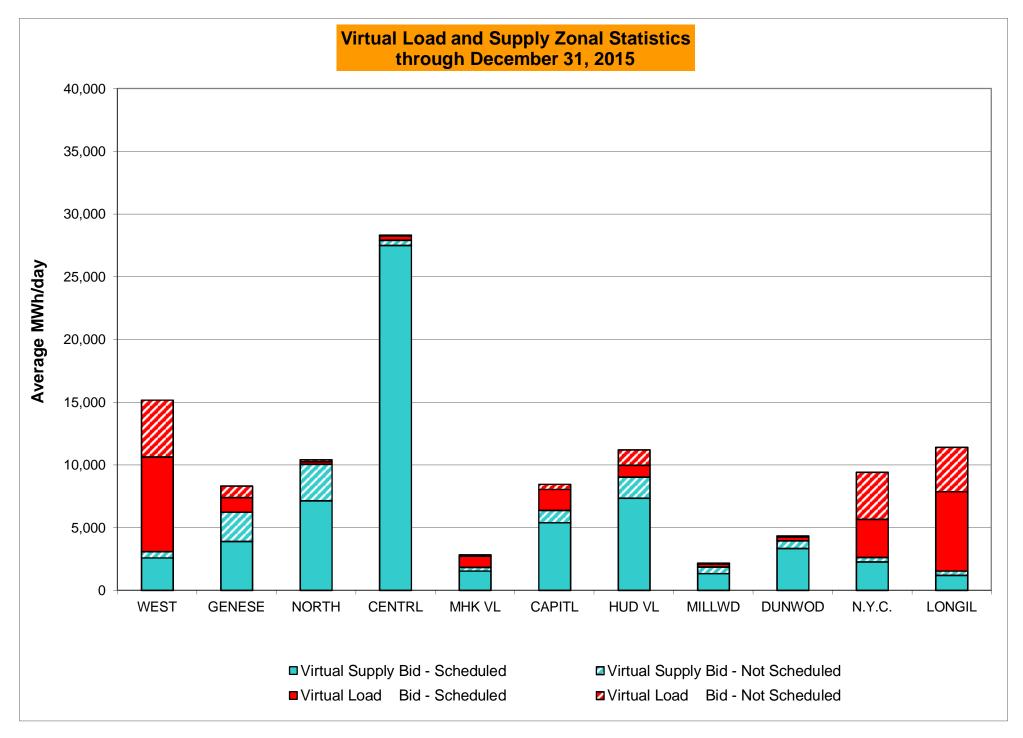
* Calendar days from reservation date.



* Calendar days from reservation date.

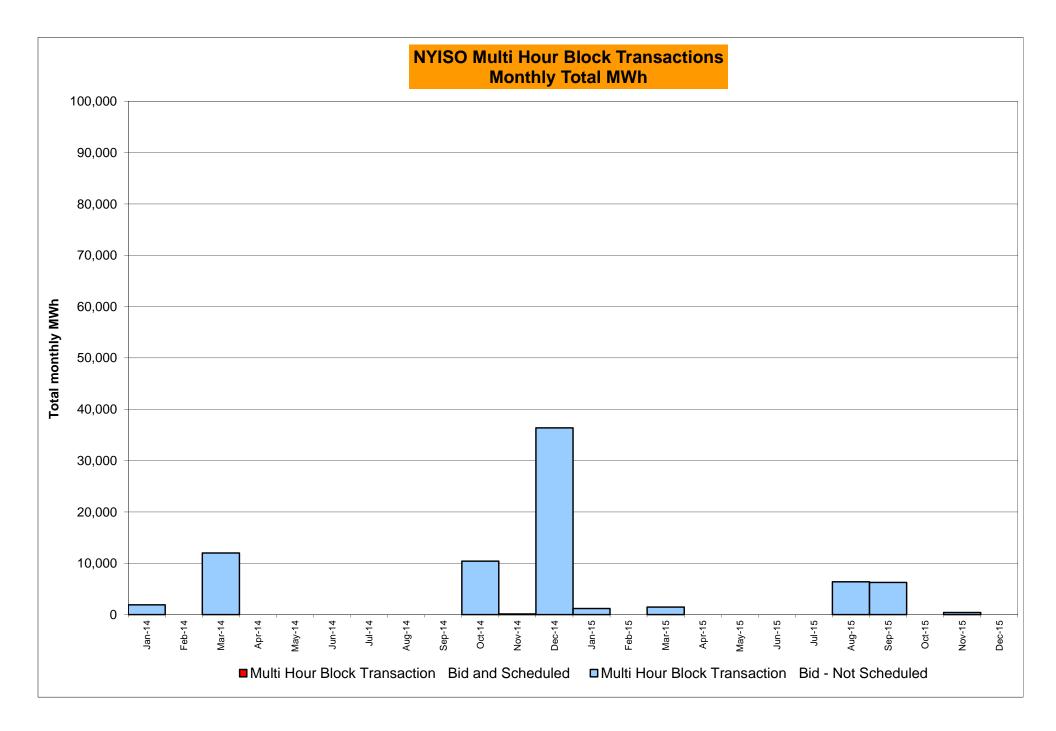
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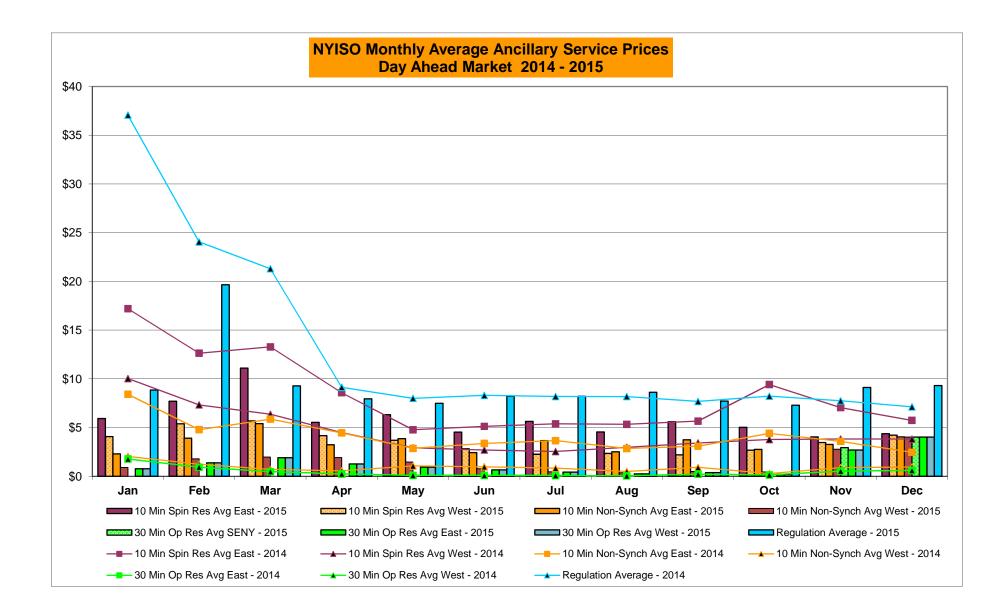


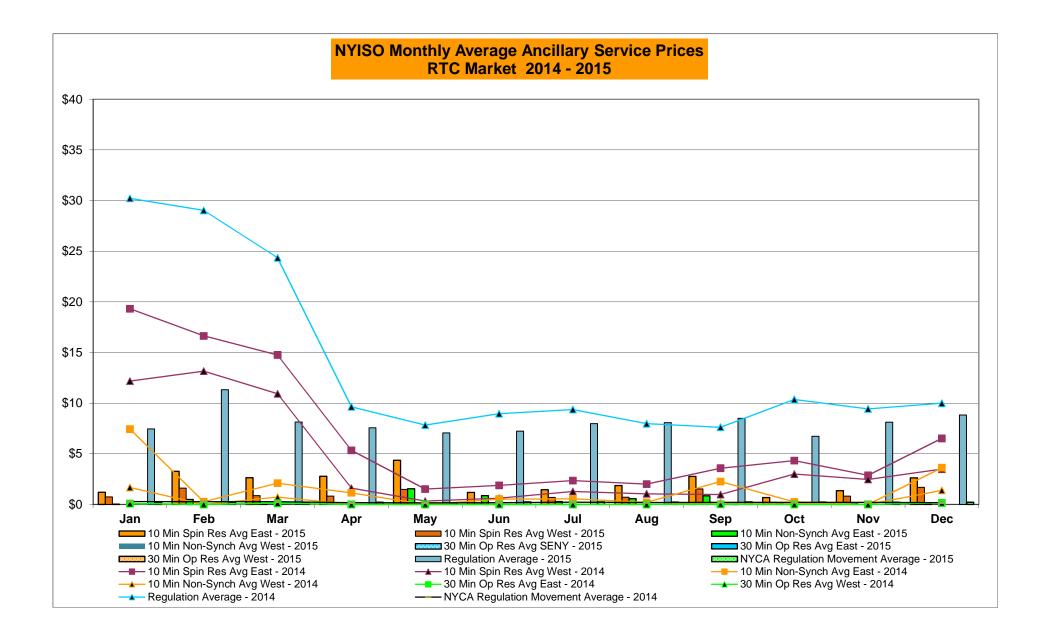


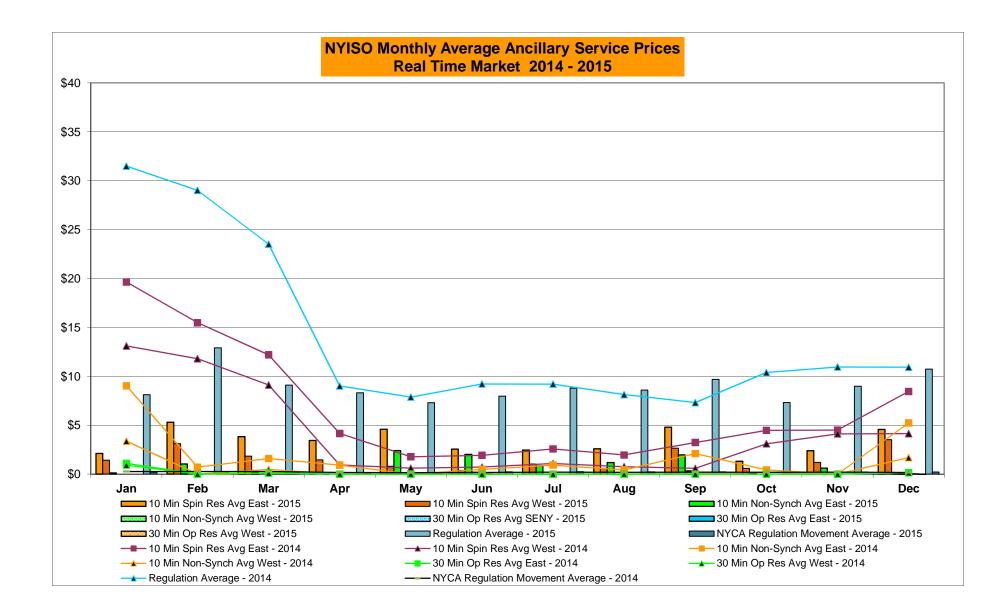
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2015

		Virtual L	oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual St	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid
	1	virtual L	Not	vintual St	Not			virtual L	Not	virtual St	Not		1	virtual L	Not	virtual St	Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled		Scheduled		Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
VEST	Jan-15	6,244	977	3,837	688	MHK VL	Jan-15	534		1,757		DUNWOD	Jan-15		444		
	Feb-15	3,180	1,570	3,288	936		Feb-15	901	790	1,446			Feb-15		663		
	Mar-15		1,992	3,185	1,223		Mar-15	626	458	2,120			Mar-15		566		
	Apr-15	6,734	1,797	1,790	419		Apr-15	293	226	3,094			Apr-15		299		
	May-15	9,778	3,320	1,381	465		May-15	248	102	1,746			May-15		308		
	Jun-15	8,135	3,156	1,800	584		Jun-15	151	24	2,252	734		Jun-15		434	1,435	
	Jul-15	9,099	5,102	2,521	434		Jul-15	632	70	2,726	521		Jul-15		375	1,220	42
	Aug-15	9,631	5,063	1,898	560		Aug-15	251	50	2,250	427		Aug-15	755	170	1,531	29
	Sep-15		4,543	1,494	278		Sep-15	568	53				Sep-15		333		
	Oct-15	8,340	5,231	1,587	248		Oct-15	200	59	2,878	154		Oct-15	344	78	1,977	
	Nov-15	12,366	8,647	1,983	385		Nov-15	691	7	2,292	153		Nov-15	397	100	1,791	69
	Dec-15	7,559	4,509	2,606	489		Dec-15	891	98	1,550	290		Dec-15	296	89	3,339	61
ENESE	Jan-15	444	147	9,467	1,422	CAPITL	Jan-15	1,816	1,292	9,400	1,563	N.Y.C.	Jan-15	3,367	1,572	887	2,42
_	Feb-15	229	347	7,477	1,425	-	Feb-15	3,192	3,267	6,354			Feb-15		2,375		
	Mar-15	452	350	7,559	2,735		Mar-15	2,234	2,029	6,772	2,411		Mar-15		1,133		1,59
	Apr-15	161	254		1,991		Apr-15	1,558	991	7,368	2,215		Apr-15	2,470	377		50
	May-15	349	167	4,831	1,643		May-15	1,518	201	7,032	1,751		May-15	5,397	1,487	918	36
	Jun-15	188	229	4,911	2,115		Jun-15	563	230	8,840	2,709		Jun-15	3,683	1,091	864	49
	Jul-15	820	256	5,043	1,871		Jul-15	1,268	320	8,358	2,958		Jul-15	7,008	2,468	1,081	17
	Aug-15	264	123	4,307	1,740		Aug-15	1,002	271	6,591			Aug-15	6,991	2,435		25
	Sep-15	419	162	4,275	1,182		Sep-15	809	212	5,319	2,181		Sep-15	7,568	3,565	1,344	47
	Oct-15	426	638	5,073	1,008		Oct-15	1,153	197	6,748	1,299		Oct-15	3,793	3,093	1,991	88
	Nov-15	1,161	658	5,576	1,889		Nov-15	1,327	496	8,068	1,442		Nov-15	2,474	3,116	3,471	84
	Dec-15	1,155	929	3,894	2,349		Dec-15	1,653	419	5,405	986		Dec-15	3,040	3,737	2,261	37
ORTH	Jan-15	537	300	7,590	2,868	HUD VL	Jan-15	1,006	1,747	4,703	2,133	LONGIL	Jan-15	5,510	3,925	547	1,48
	Feb-15	274	423	7,361	1,898		Feb-15	769	2,147	2,841	2,800		Feb-15	4,383	3,985	613	1,72
	Mar-15	422	572	6,213	2,540		Mar-15	747	1,578	5,045	3,272		Mar-15	4,639	2,844	464	1,71
	Apr-15	223	366		3,243		Apr-15	1,180	1,056	6,875	1,292		Apr-15	4,399	3,064	760	67
	May-15	263	255	7,237	3,146		May-15	1,267	1,372	5,580	1,488		May-15	6,102	3,728	936	
	Jun-15	169	196	6,060	2,977		Jun-15	825	914	5,600	1,251		Jun-15	6,015	3,918	768	79
	Jul-15	233	291	6,047	2,798		Jul-15	1,700	1,241	4,983	1,200		Jul-15	5,715	5,340	1,191	76
	Aug-15	299	288	5,619	2,871		Aug-15	1,195	1,663	5,086			Aug-15		3,681	1,086	
	Sep-15	286	249		2,280		Sep-15	1,244	1,629	5,648			Sep-15		3,802		
	Oct-15	590	475		2,830		Oct-15	736	1,241	6,738			Oct-15		4,563		
	Nov-15	314	212		2,803		Nov-15	819	701	7,267			Nov-15		3,280		
	Dec-15	217	156	7,147	2,907		Dec-15	937	1,218	7,359	1,677		Dec-15	6,341	3,514	1,186	363
CENTRL	Jan-15	2,414	939	33,426	776	MILLWD	Jan-15	418	244	716	192	NYISO	Jan-15	22,958	11,774	73,161	14,746
	Feb-15		1,265	28,050	579		Feb-15	562	674	627	186		Feb-15		17,506		
	Mar-15	1,168	538	24,644	587		Mar-15	377	389	947	287		Mar-15	19,769	12,449	59,066	17,619
	Apr-15	927	311	20,024	588		Apr-15	174	239	979	298		Apr-15	18,550	8,979	56,234	12,45
	May-15	908	249		400	1	May-15	497	126	668			May-15		11,315		
	Jun-15	1,104	194		791		Jun-15	588	24	790	277		Jun-15	22,528	10,411		13,18
	Jul-15	1,401	358	23,806	636		Jul-15	866	45				Jul-15	30,416	15,865	57,752	11,90
	Aug-15	975	105		222		Aug-15	542	48	1,024			Aug-15		13,898		
	Sep-15	1,206	240	20,987	217		Sep-15	509	34	1,380	415		Sep-15	28,471	14,820	53,355	10,01
	Oct-15	1,006	129		155	1	Oct-15	251	14	1,271	673		Oct-15	21,713	15,719	62,752	10,49
	Nov-15	751	52		561	1	Nov-15	183	88	1,573			Nov-15		17,355	68,511	11,99
	Dec-15	339	54	27,519	405		Dec-15	222	87	1,330	536		Dec-15	22,650	14,810	63,595	10,98

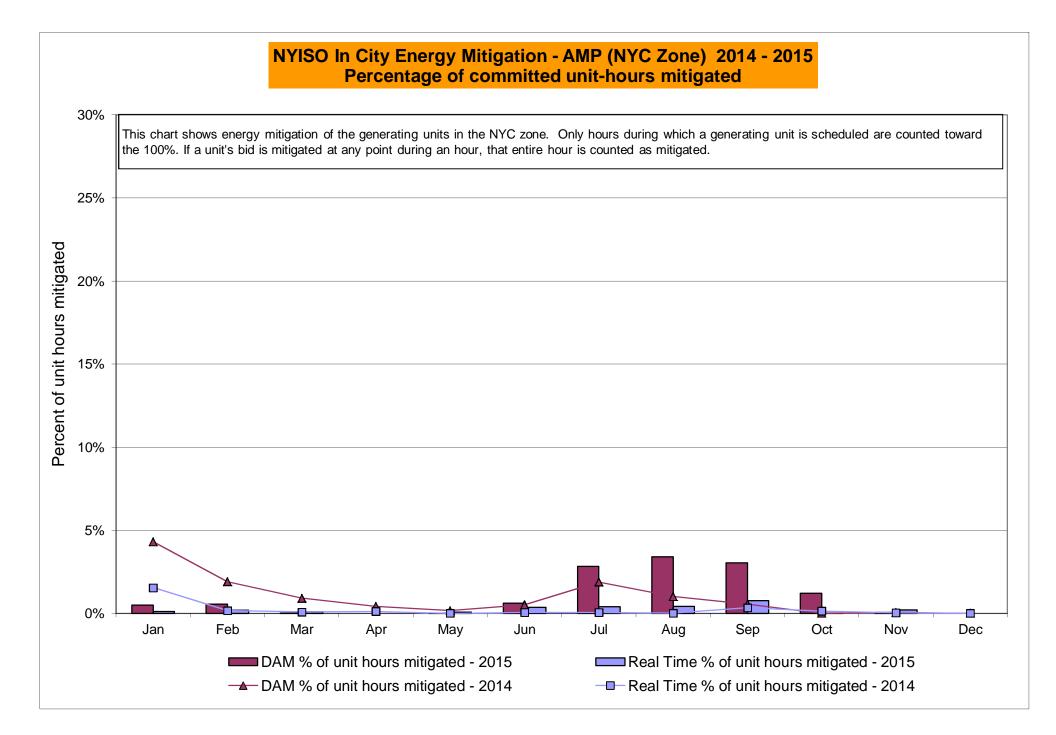


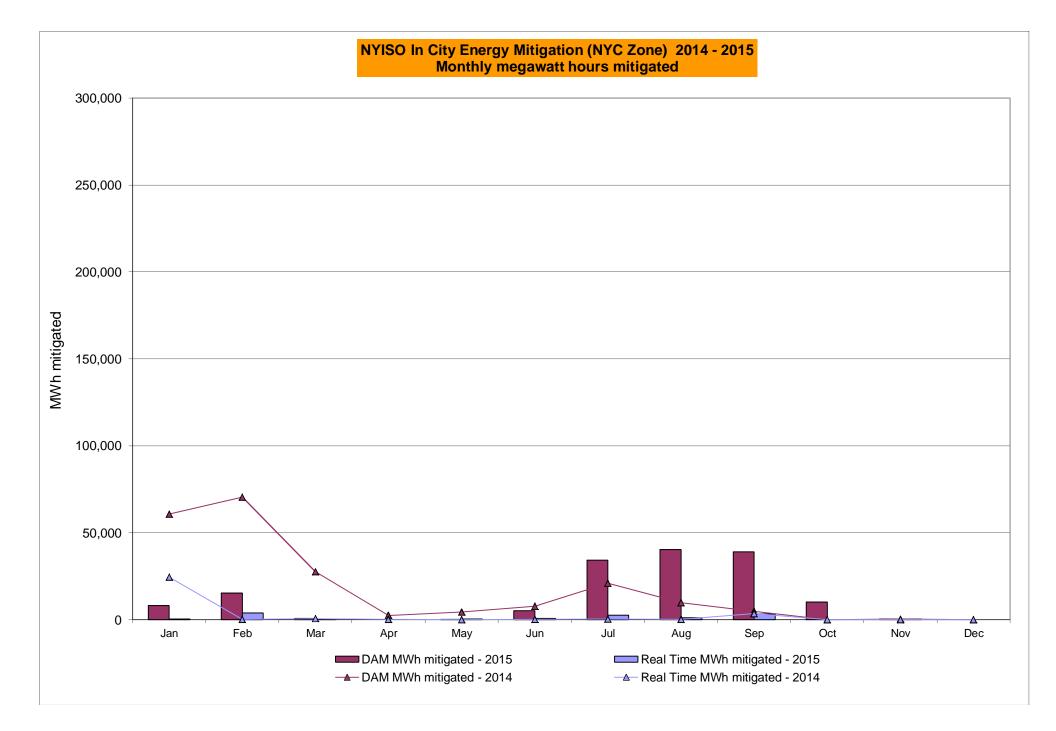


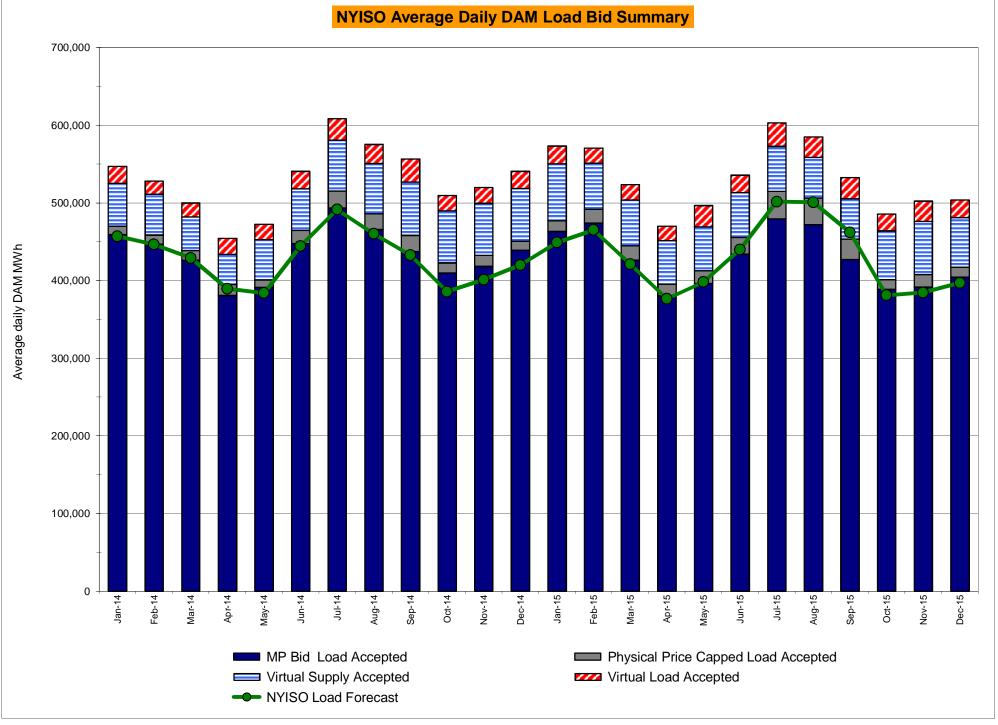


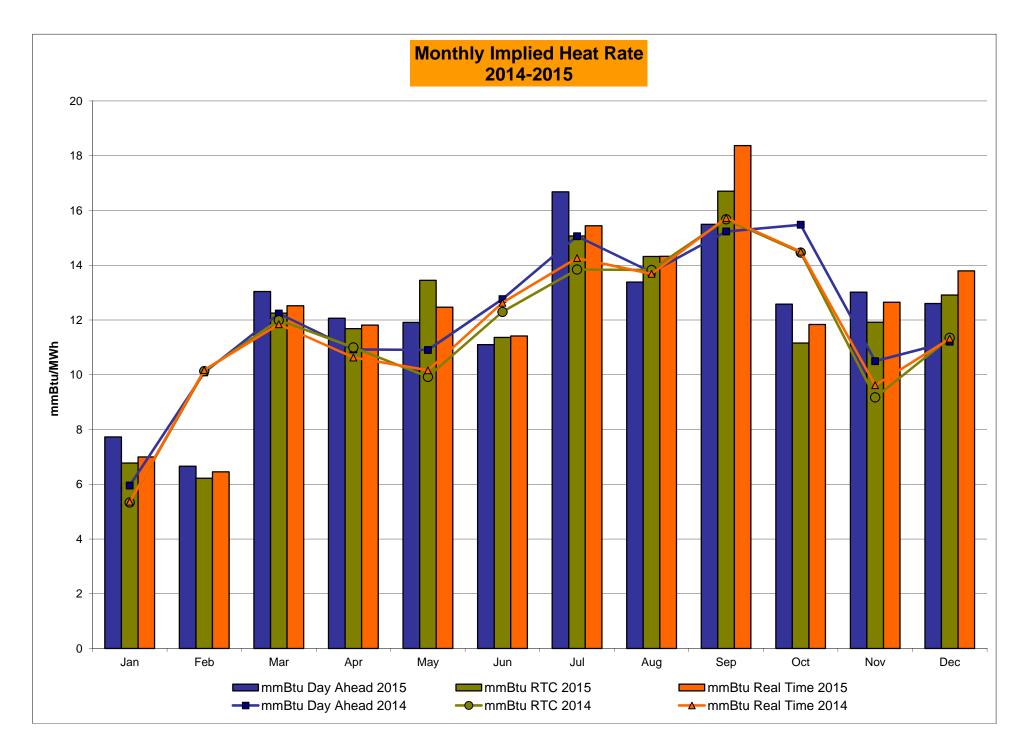


	1	NYISO Mark	ets Ancillar	v Services	Statistics	- Unweiaht	ed Price (\$	(MWH)				
2015	<u>-</u> January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market	<u>oundary</u>	robraary	Maron	<u>/ (p/ii</u>	may	<u>ouno</u>	<u>oury</u>	ruguot		000000	November	December
10 Min Spin East	5.92	7.69	11.09	5.53	6.31	4.53	5.62	4.54	5.60	5.02	4.03	4.36
10 Min Spin West	4.07	5.40	5.68	4.16	3.69	2.84	2.26	2.36	2.20	2.68	3.47	4.22
10 Min Non Synch East	2.30	3.89	5.40	3.22	3.84	2.42	3.66	2.51	3.74	2.75	3.27	4.03
10 Min Non Synch West	0.90	1.79	1.97	1.91	1.45	0.77	0.45	0.36	0.49	0.45	2.77	4.02
30 Min SENY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.95	4.02
30 Min East	0.77	1.38	1.91	1.26	0.93	0.64	0.43	0.24	0.37	0.18	2.69	4.02
30 Min West	0.77	1.38	1.91	1.26	0.93	0.64	0.43	0.24	0.37	0.18	2.69	4.02
Regulation	8.84	19.65	9.27	7.94	7.48	8.20	8.20	8.61	7.71	7.29	9.10	9.30
RTC Market												
10 Min Spin East	1.20	3.27	2.64	2.77	4.36	1.18	1.44	1.86	2.76	0.67	1.35	2.62
10 Min Spin West	0.74	1.61	0.86	0.81	1.48	0.04	0.69	0.70	1.53	0.20	0.81	1.68
10 Min Non Synch East	0.01	0.48	0.01	0.00	1.54	0.87	0.28	0.57	0.84	0.01	0.16	0.01
10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
30 Min SENY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00
30 Min East	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
30 Min West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Regulation	7.45	11.32	8.13	7.56	7.06	7.24	7.97	8.07	8.49	6.73	8.12	8.83
NYCA Regulation Movement	0.21	0.21	0.16	0.22	0.16	0.24	0.25	0.23	0.24	0.23	0.22	0.22
Real Time Market												
10 Min Spin East	2.12	5.31	3.84	3.44	4.59	2.56	2.47	2.59	4.79	1.32	2.40	4.57
10 Min Spin West	1.44	3.11	1.83	1.46	0.81	0.38	1.04	0.59	2.65	0.59	1.20	3.53
10 Min Non Synch East	0.12	1.03	0.17	0.01	2.41	2.01	0.83	1.19	1.97	0.09	0.61	0.09
10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.02	0.33	0.00	0.00	0.05
30 Min SENY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.03
30 Min East	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.03
30 Min West	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.03
Regulation	8.12	12.91	9.11	8.32	7.30	7.97	8.80	8.60	9.69	7.32	8.98	10.73
NYCA Regulation Movement	0.20	0.21	0.17	0.15	0.16	0.24	0.24	0.24	0.24	0.23	0.22	0.21
<u>2014</u>	January	February	March	April	May	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
Day Ahead Market												
10 Min Spin East	17.19	12.62	13.27	8.57	4.77	5.11	5.37	5.33	5.66	9.41	7.04	5.73
10 Min Spin West	10.02	7.32	6.36	4.47	2.92	2.69	2.54	2.96	3.41	3.76	3.82	3.82
10 Min Non Synch East	8.40	4.78	5.86	4.44	2.86	3.37	3.65	2.85	3.08	4.40	3.58	2.45
10 Min Non Synch West	2.02	1.23	0.70	0.55	1.06	0.96	0.83	0.49	0.91	0.27	0.89	0.95
30 Min East	1.77	0.93	0.47	0.24	0.09	0.08	0.08	0.04	0.21	0.14	0.53	0.60
30 Min West	1.77	0.93	0.47	0.24	0.09	0.08	0.08	0.04	0.21	0.14	0.53	0.60
Regulation	37.05	24.05	21.29	9.12	7.99	8.30	8.18	8.18	7.67	8.21	7.74	7.12
RTC Market												
10 Min Spin East	19.32	16.64	14.76	5.34	1.52	1.87	2.35	2.00	3.57	4.32	2.86	6.51
10 Min Spin West	12.18	13.16	10.93	1.61	0.33	0.61	1.27	1.04	0.98	2.99	2.46	3.48
10 Min Non Synch East	7.43	0.26	2.10	1.14	0.00	0.52	0.55	0.20	2.25	0.25	0.00	3.62
10 Min Non Synch West	1.68	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.17	0.13	0.00	1.39
30 Min East	0.08	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.15
30 Min West	0.08	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.15
Regulation	30.21	29.03	24.35	9.64	7.83	8.95	9.36	7.97	7.62	10.36	9.42	9.99
NYCA Regulation Movement	0.28	0.27	0.26	0.17	0.15	0.17	0.21	0.18	0.21	0.20	0.20	0.17
Real Time Market												
10 Min Spin East	19.64	15.48	12.19	4.15	1.78	1.92	2.57	1.96	3.23	4.47	4.51	8.45
10 Min Spin West	13.10	11.80	9.11	0.94	0.61	0.72	1.08	0.76	0.60	3.10	4.12	4.14
10 Min Non Synch East	9.03	0.70	1.59	0.93	0.00	0.48	0.92	0.44	2.09	0.42	0.00	5.23
10 Min Non Synch West	3.37	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.05	0.20	0.00	1.69
30 Min East	1.10	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
30 Min West	0.92	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
Regulation	31.50	29.02	23.52	9.02	7.87	9.21	9.21	8.13	7.31	10.39	10.96	10.94
NYCA Regulation Movement	0.27	0.27	0.27	0.17	0.15	0.18	0.21	0.19	0.21	0.19	0.20	0.17

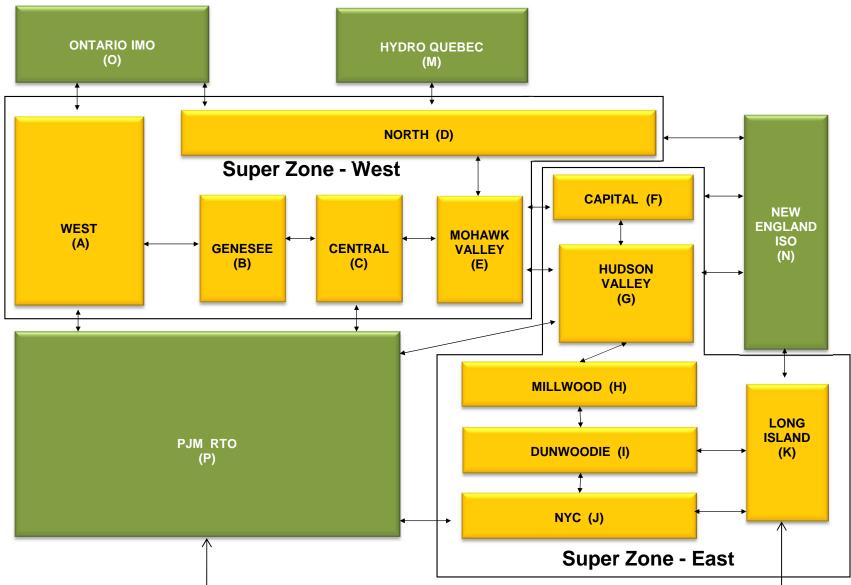








NYISO LBMP ZONES



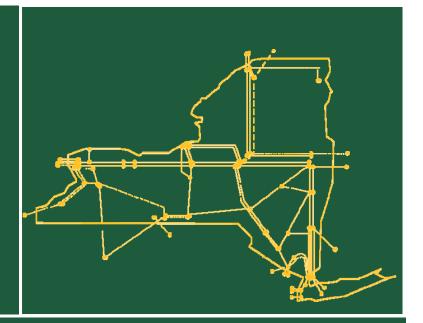
Market Mitigation and Analysis Prepared: 1/4/2016 11:15 AM

Billing Codes for Chart 4-C

Chart - C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81205	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee Balancing	81208	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81209	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81213	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee DAM	81201	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	84001	EDRP/SCR Demand Response - Local
Bid Production Cost Guarantee DAM	84101	EDRP/SCR Demand Response - NYISO Wide
Bid Production Cost Guarantee DAM	81401	DAM Price Responsive Load Program
Bid Production Cost Guarantee DAM	81202	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM	81206	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	81207	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM Virtual	81501	DAM Virtual Bid Production Cost Guarantee
DAM Contract Balancing	81315	DAM Contract Balancing
DAM Contract Balancing	81317	DAM Contract Balancing
Local Reliability Balancing	81002	Balancing Local Reliability Bid Production Cost Guarantee
Local Reliability Balancing	83901	Margin Restoration (MOB) Revenue
Local Reliability DAM	81001	DAM Local Reliability Bid Production Cost Guarantee
NYISO Cost of Operations	80901	NYISO Cost Of Operations
NYISO Cost of Operations	80902	NYISO Cost Of Operations
NYISO Cost of Operations	83501	NYISO Cost Of Operations
NYISO Cost of Operations	83502	NYISO Cost Of Operations
Residuals Balancing	81302	Balancing Market Energy Residual
Residuals Balancing	81304	Balancing Market Loss Residual
Residuals Balancing	81305	Balancing Market Congestion Balancing
Residuals Balancing	81306	Emergency Energy Purchases
Residuals Balancing	81307	Emergency Energy Sales
Residuals Balancing	81309	Balancing Market Energy Residual
Residuals Balancing	81311	Balancing Market Loss Residual
Residuals Balancing	81312	Balancing Market Congestion Balancing
Residuals Balancing	81313	Emergency Energy Purchases
Residuals Balancing	81314	Emergency Energy Sales
Residuals DAM	81301	Day Ahead Market Energy Residual
Residuals DAM	81303	Day Ahead Market Loss Residual
Residuals DAM	81308	Day Ahead Market Energy Residual
Residuals DAM	81310	Day Ahead Market Loss Residual



The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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