



Monthly Report

October 2015

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Operations Performance Metrics Monthly Report



October 2015 Report

Operations & Reliability Department New York Independent System Operator

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data collected on or before November 9, 2015.

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October 2015 Operations Performance Highlights

- Peak load of 20,088 MW occurred on 10/28/2015 HB 18
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 2.9 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- Commissioning of the the 200MVAR Shunt Reactor at the 345kV Coopers Corners substation was completed on 10/16/2015
- Higher levels of wind curtailments in the North Country this month were coincident with the scheduled outages of the Chateaugay-Massena 765kV (#7040), Massena-Marcy 765kV (#MSU1), and Moses-Willis 230kV (#MW1) transmission lines
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

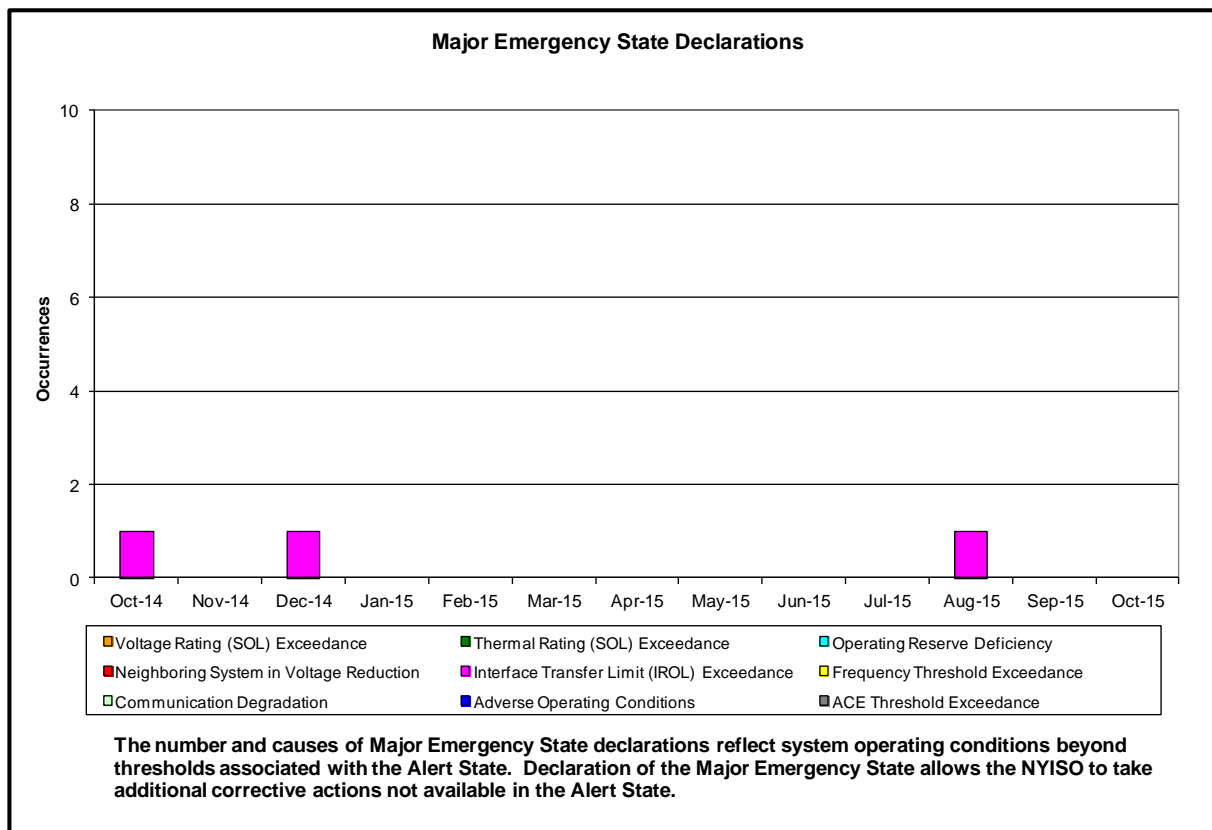
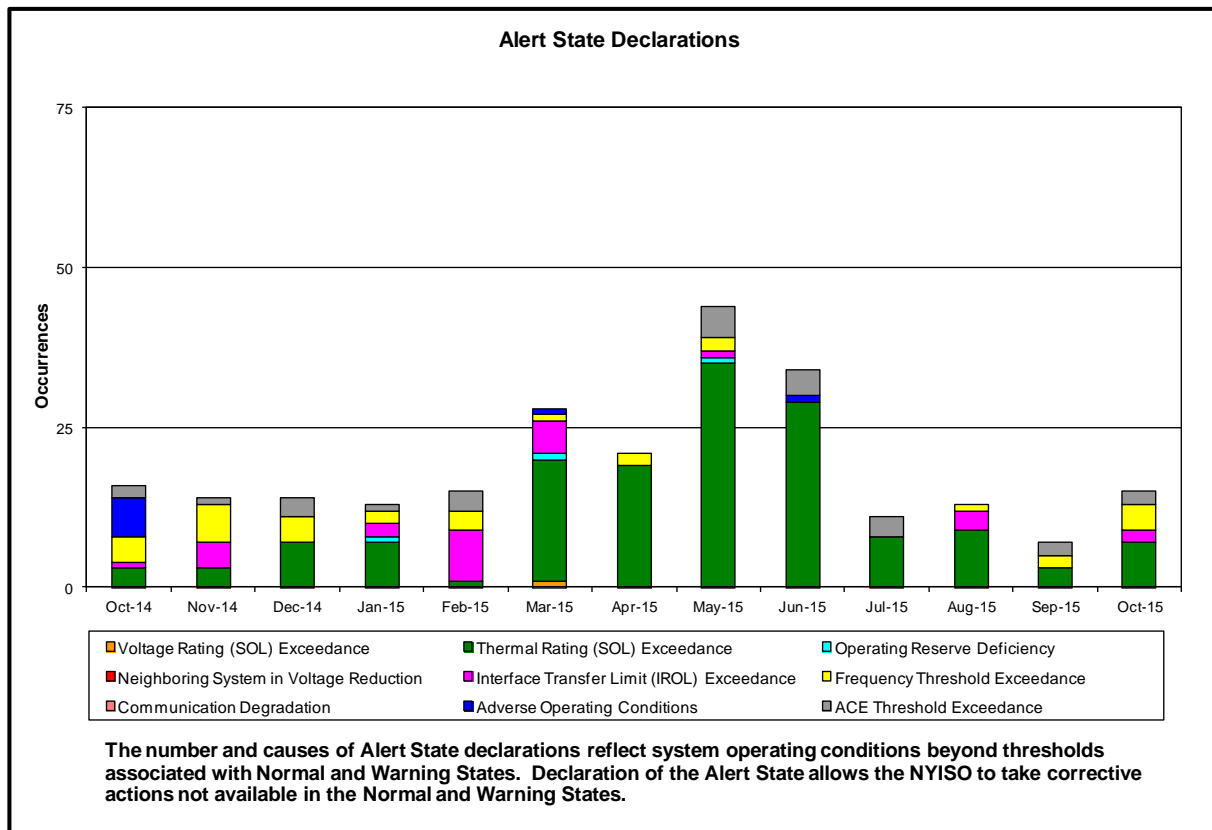
	Current Month Value (\$M)	Year-to-Date Value (\$M)
Regional Congestion Coordination	\$0.73	\$11.68
Regional PJM-NY RT Scheduling	(\$0.02)	\$2.58
Total	\$0.71	\$14.26

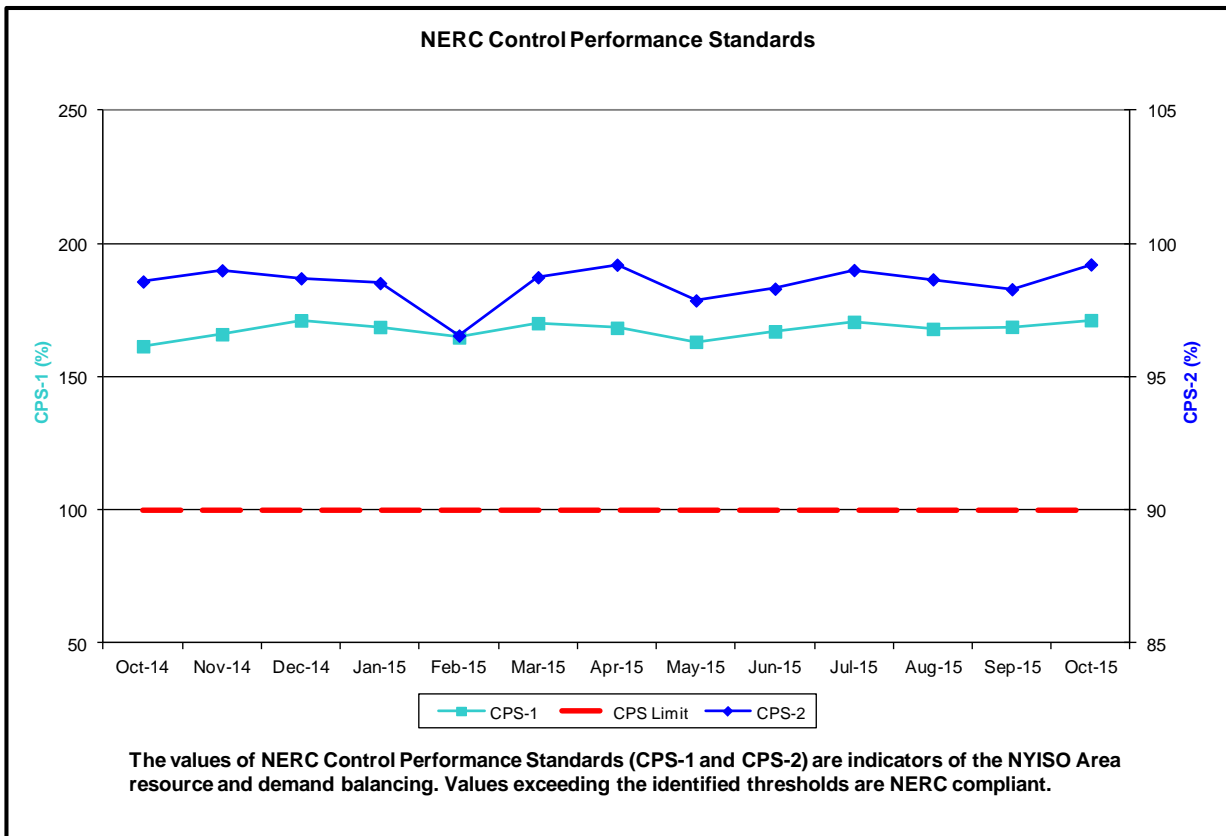
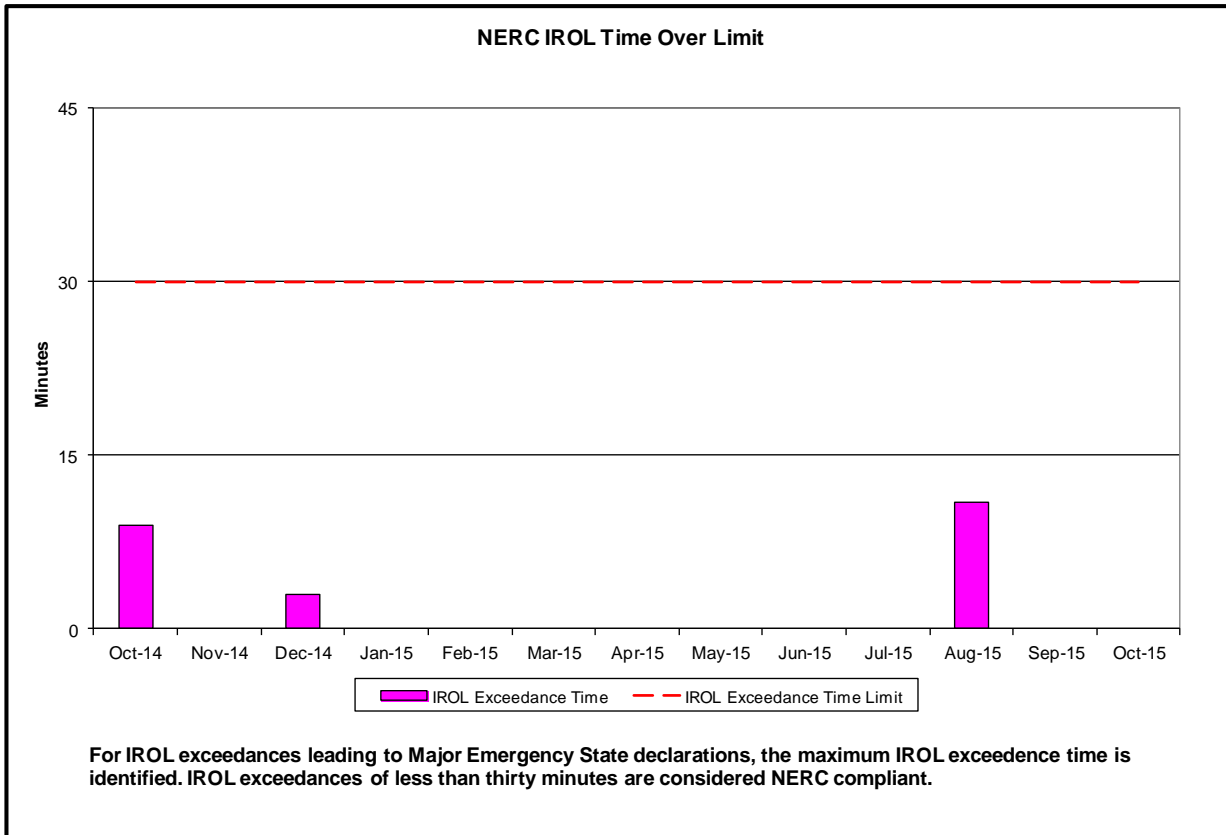
- Statewide uplift cost monthly average was (\$0.22)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and changes from the end of the prior Winter Capability period.

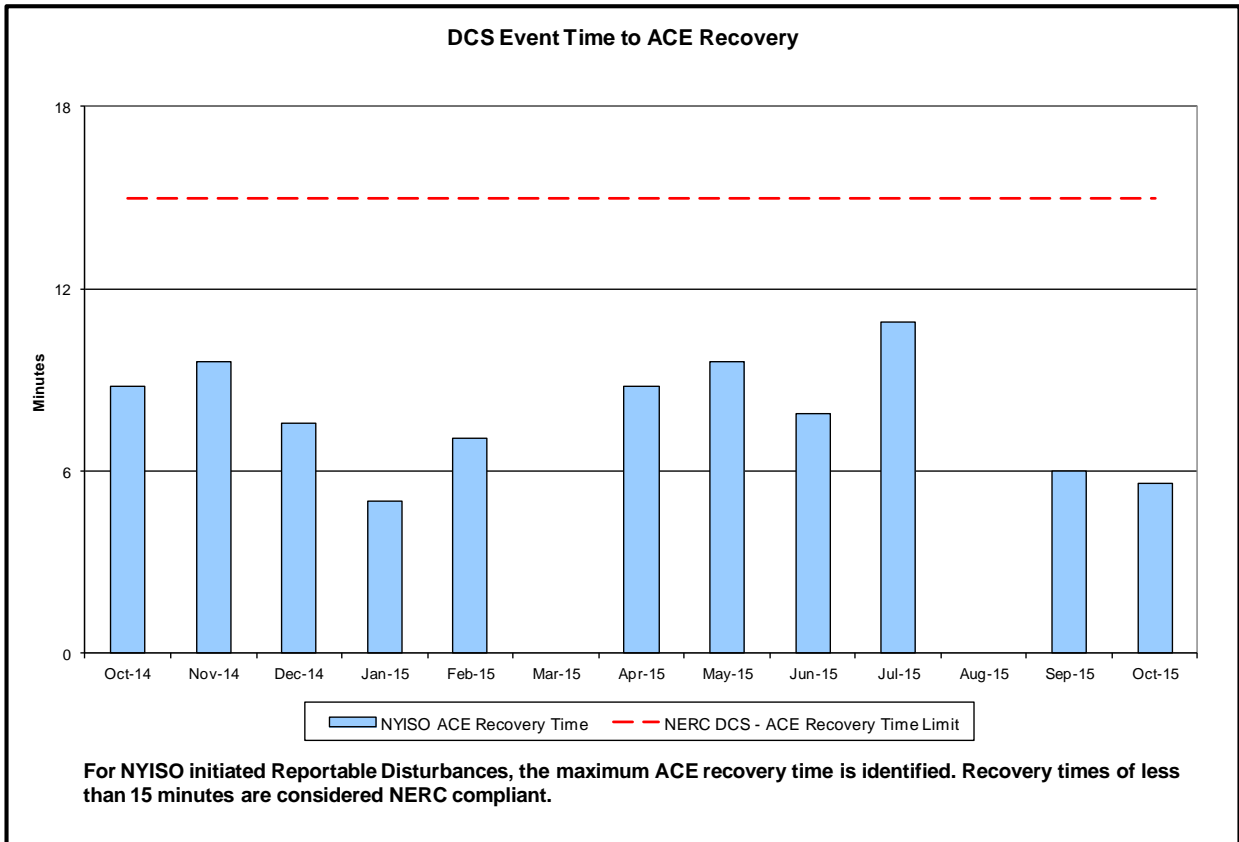
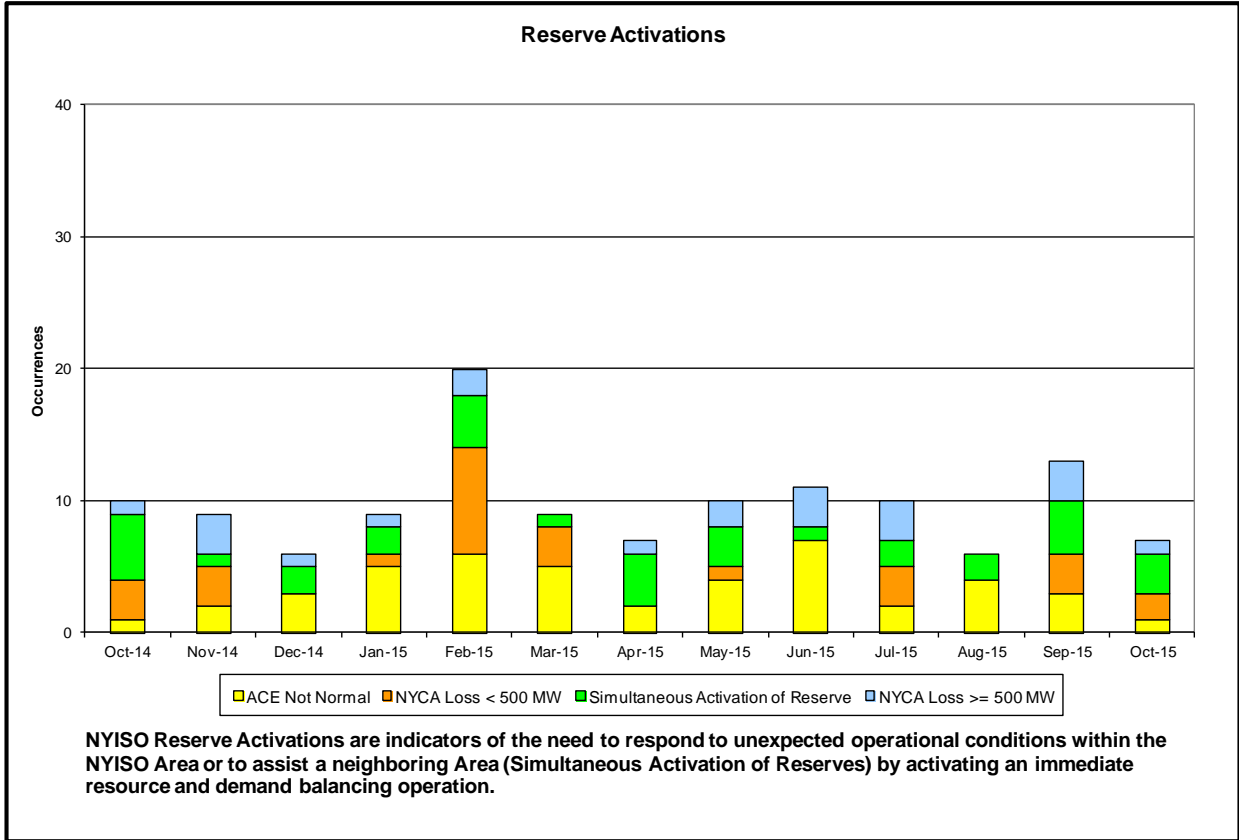
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
November 2015 Spot Price	\$0.46	\$3.46	\$6.36	\$1.82
April 2015 Spot Price	\$0.75	\$2.82	\$7.30	\$2.92
Change	(\$0.29)	\$0.64	(\$0.94)	(\$1.10)

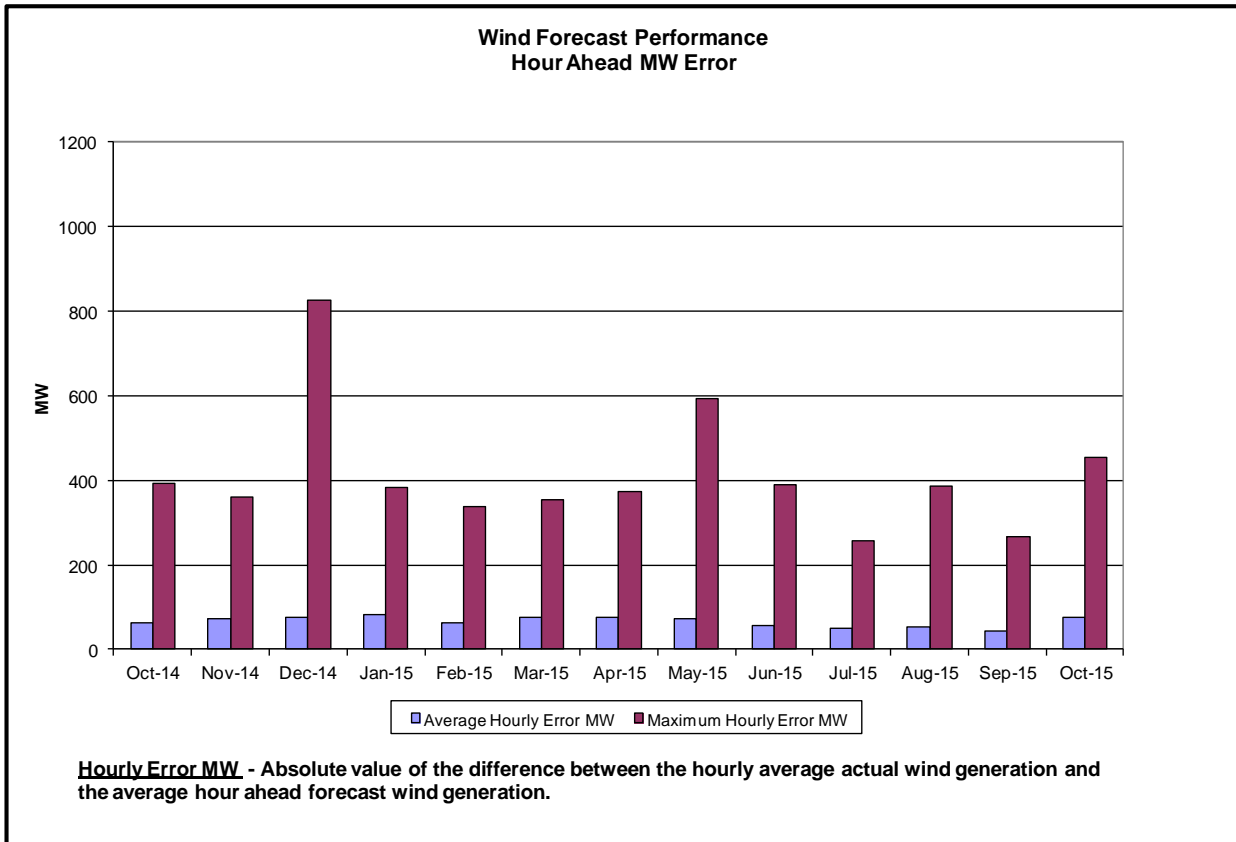
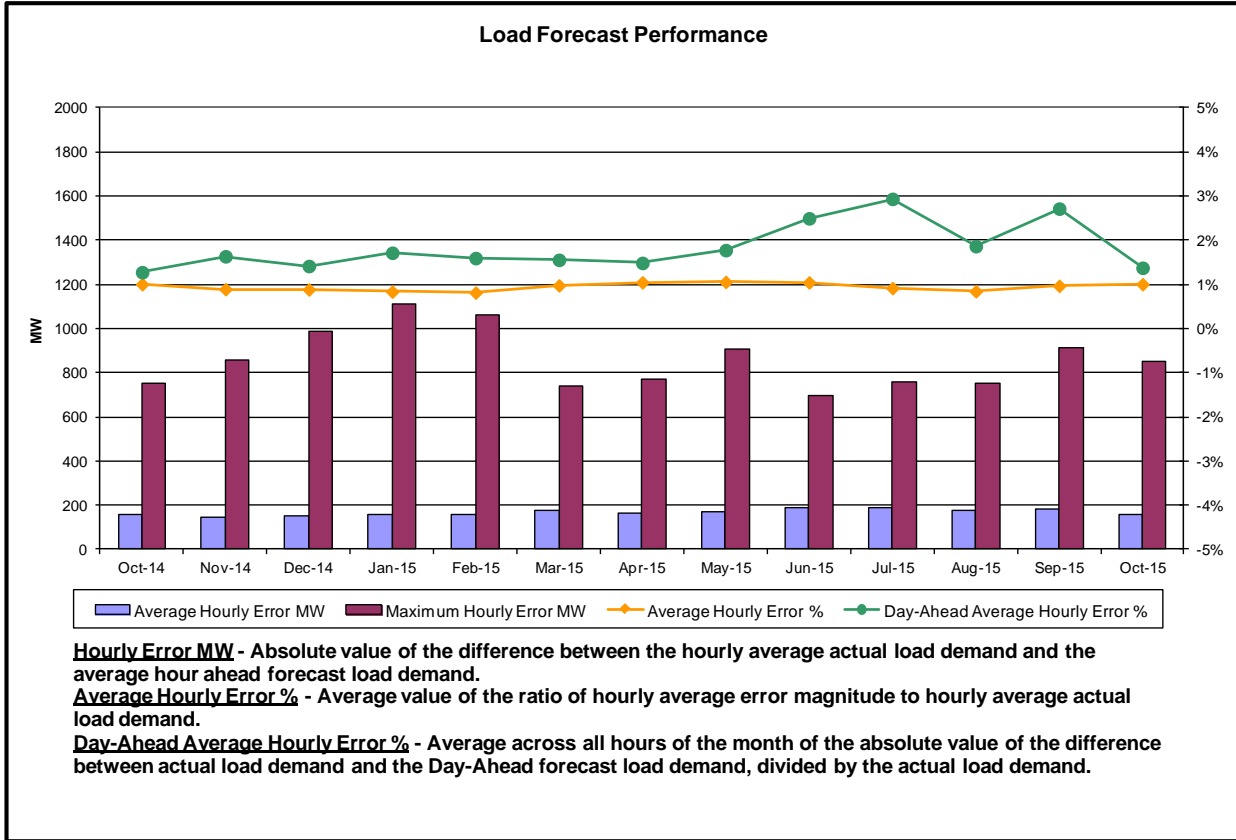
- Price changes from April 2015 to November 2015 are driven by changes in supply as well as Capability Year inputs such as demand curve parameters, Locational Capacity Requirements, the Installed Reserve Margin and the load forecast.

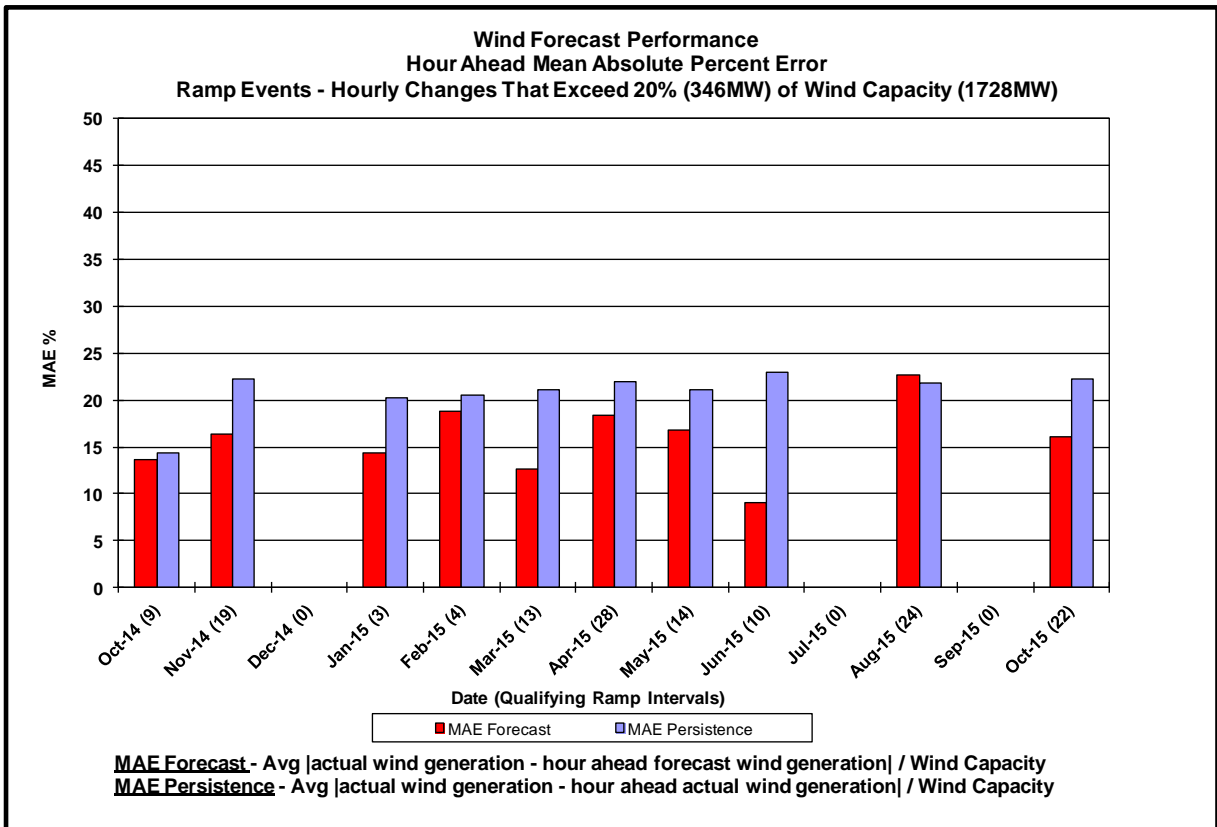
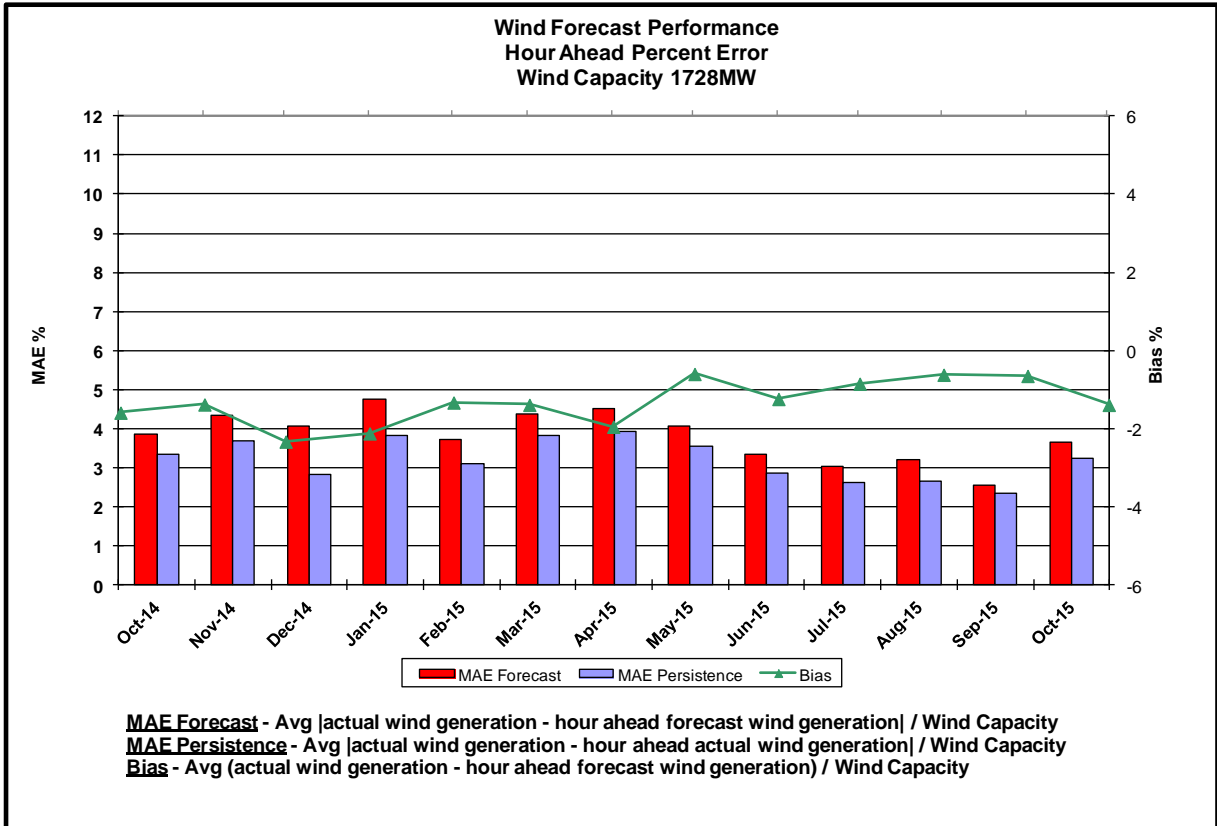
Reliability Performance Metrics

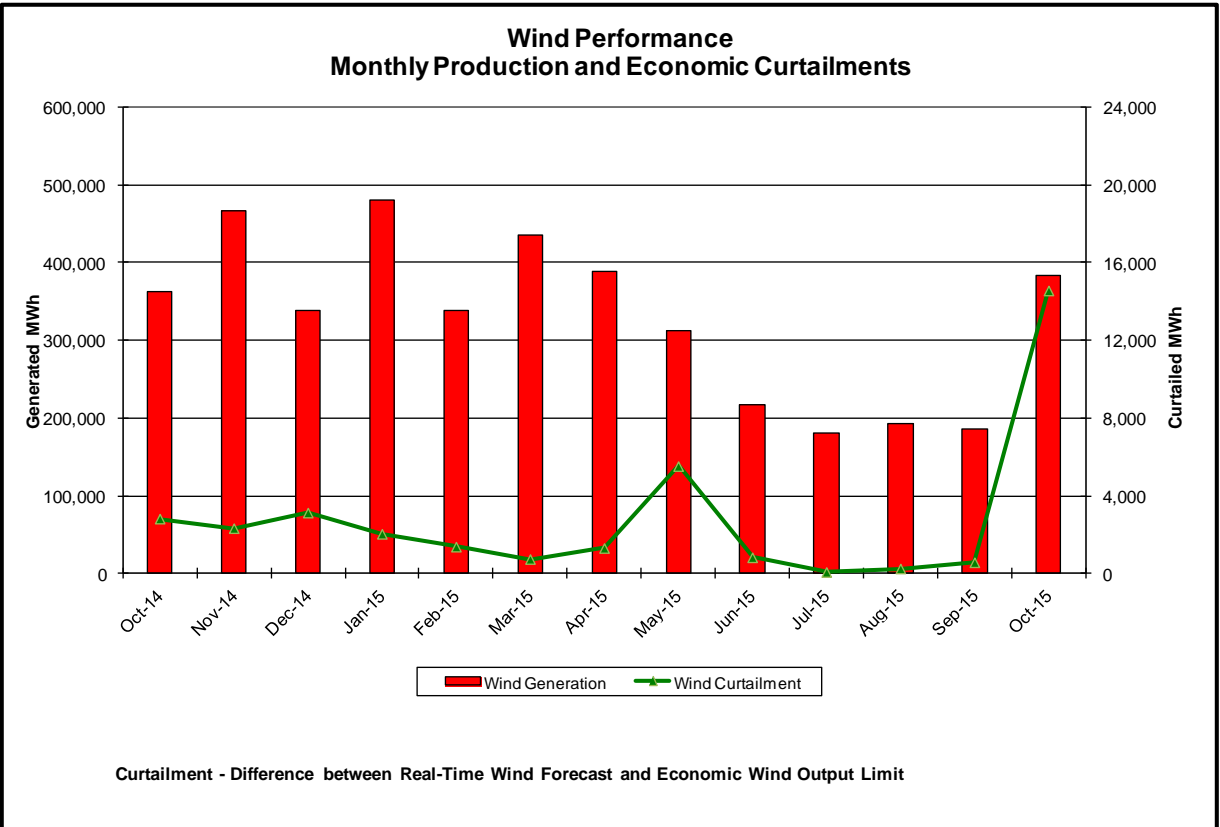
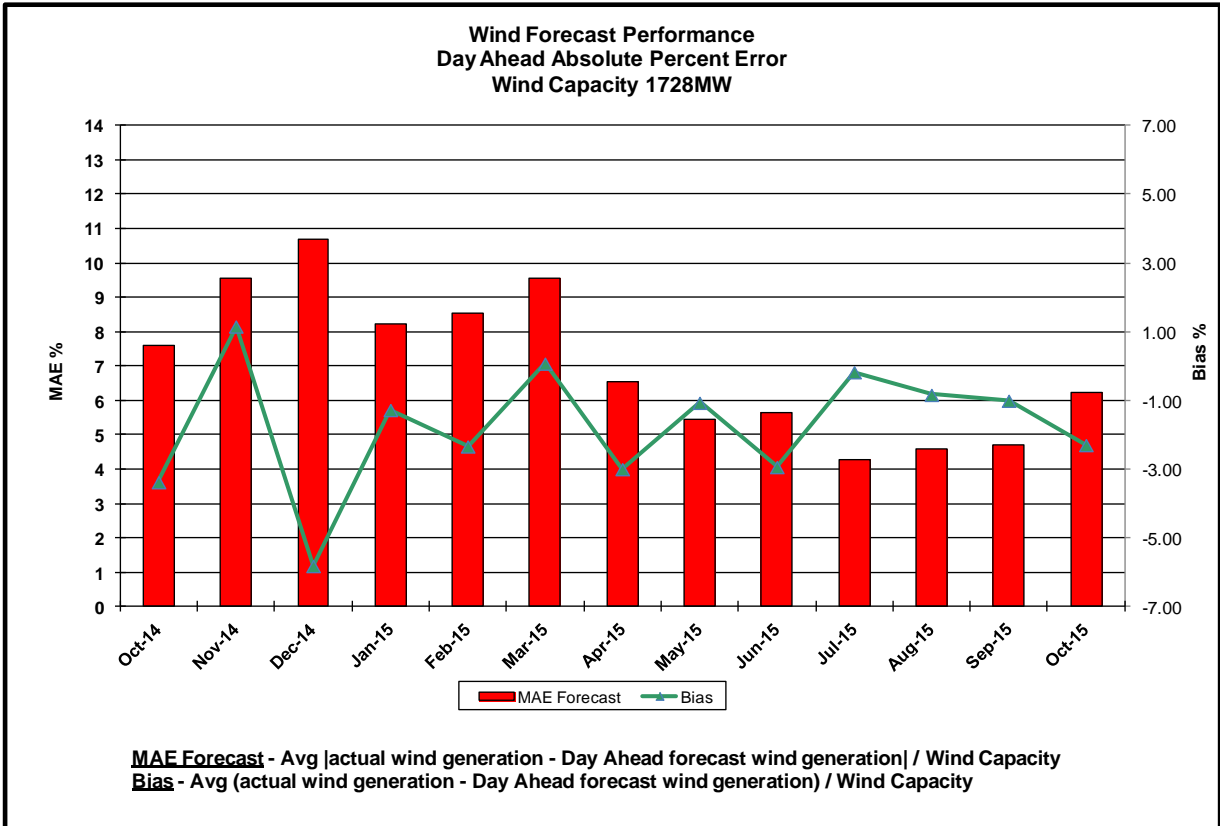


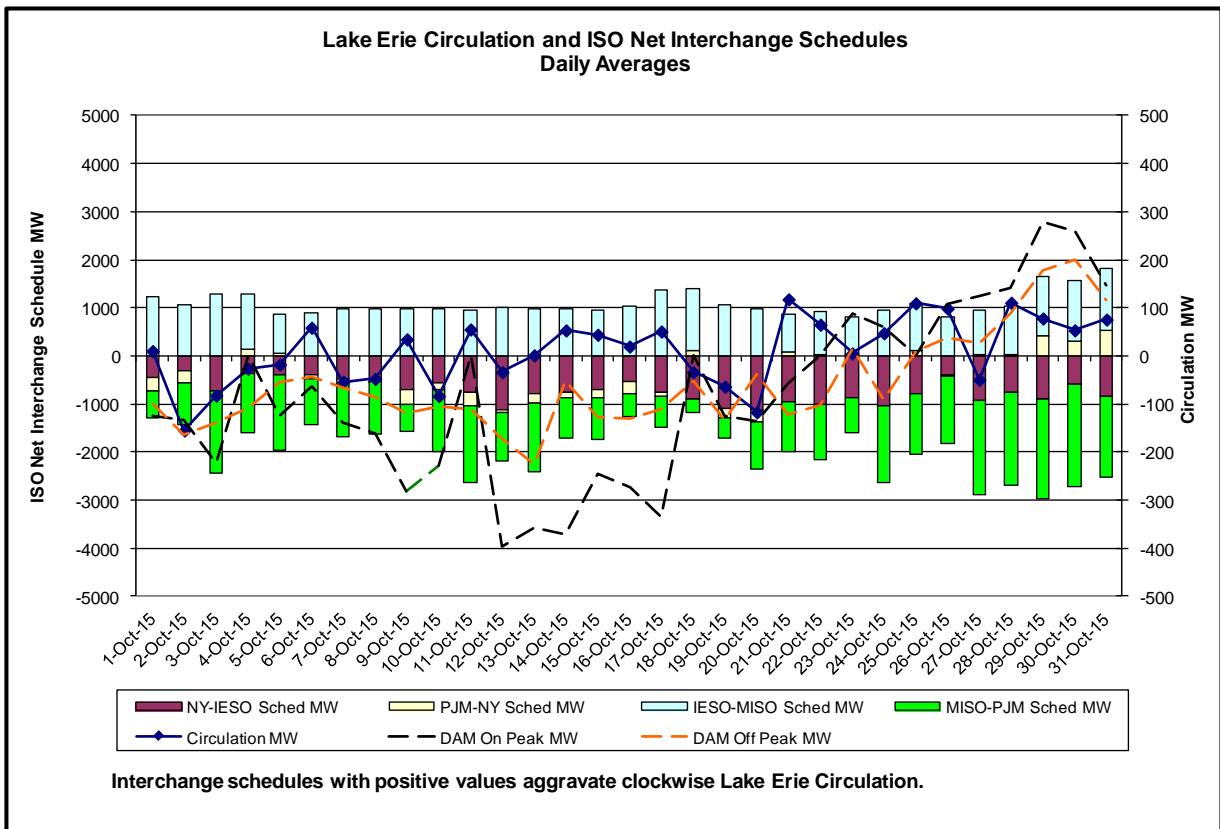
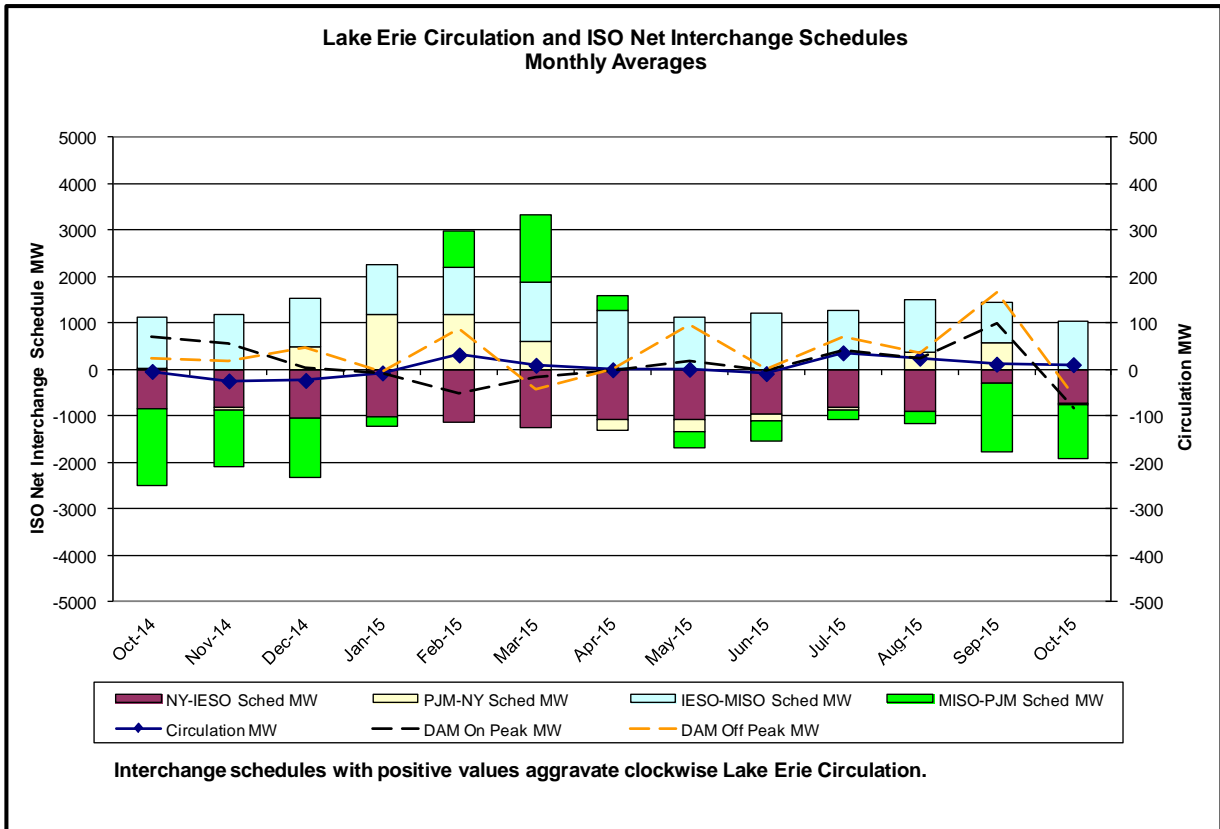




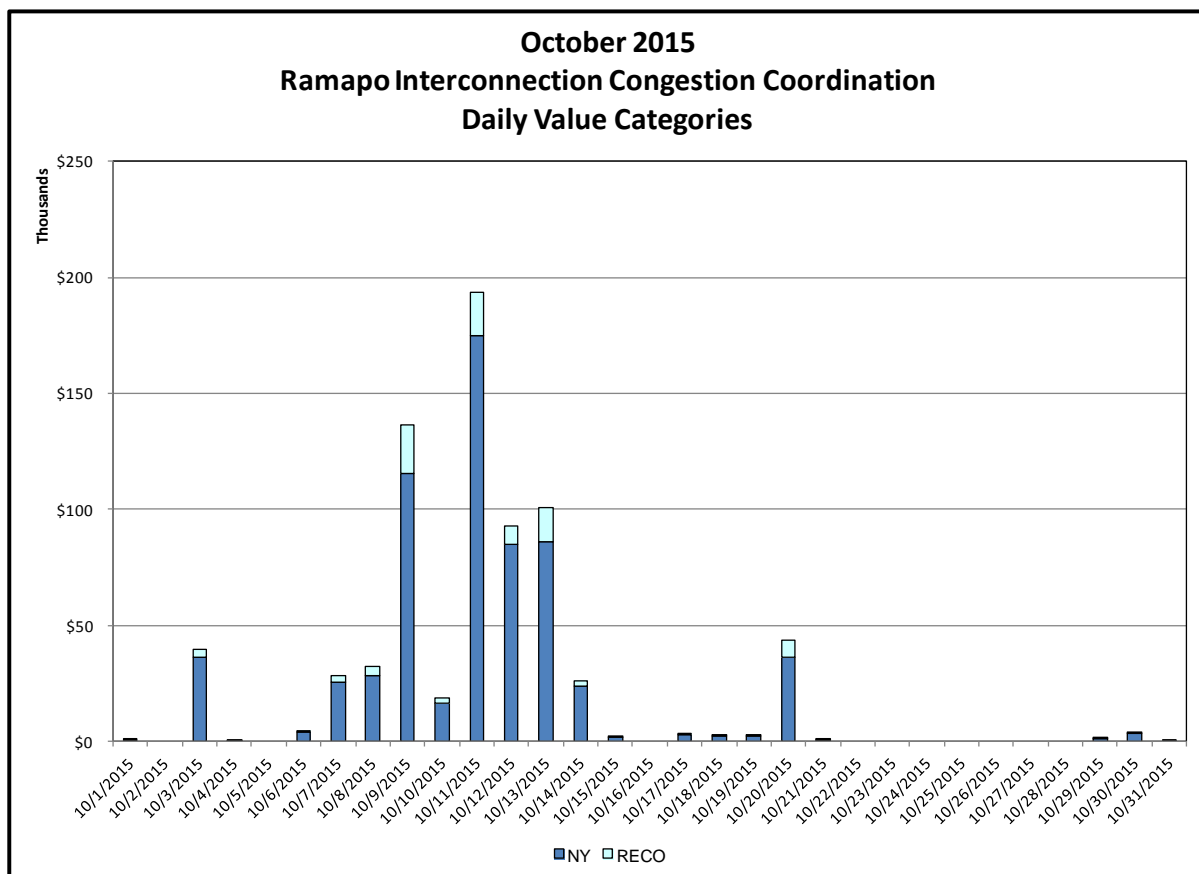
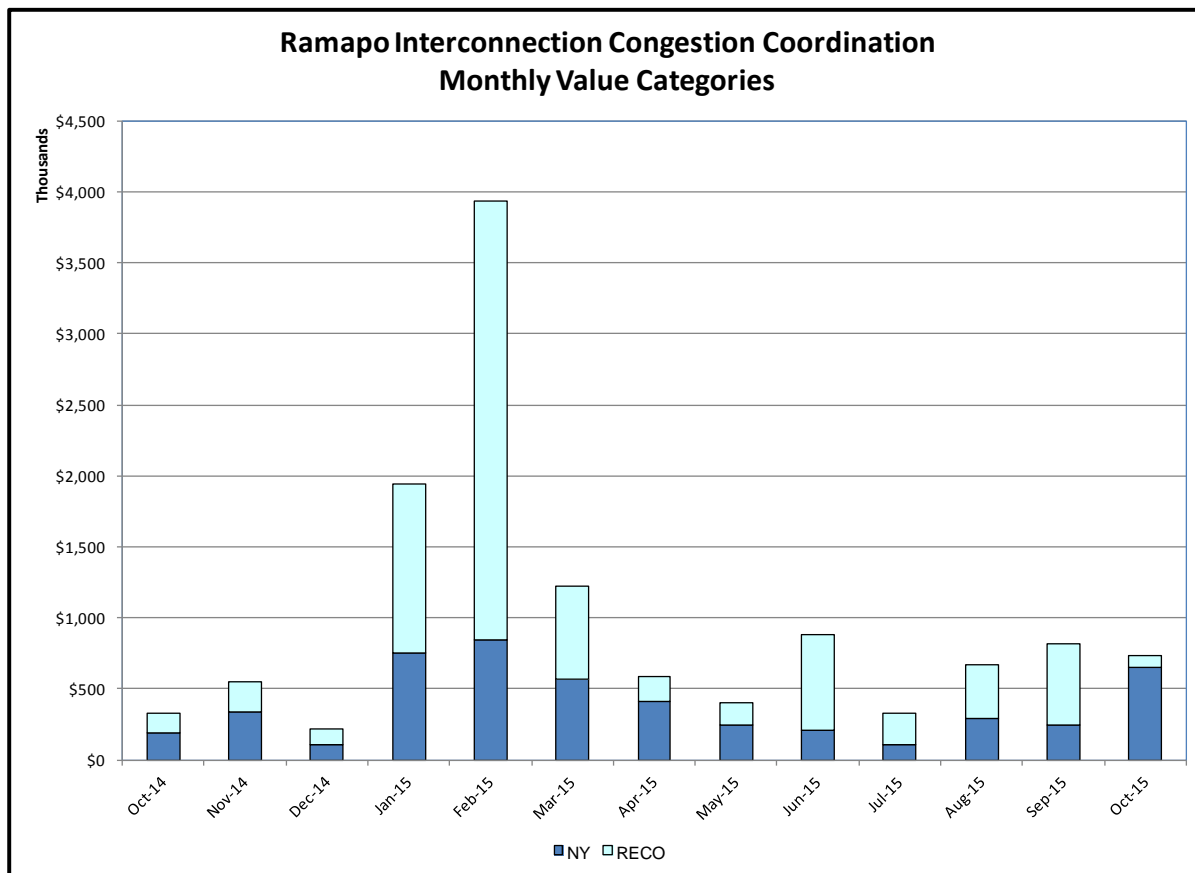






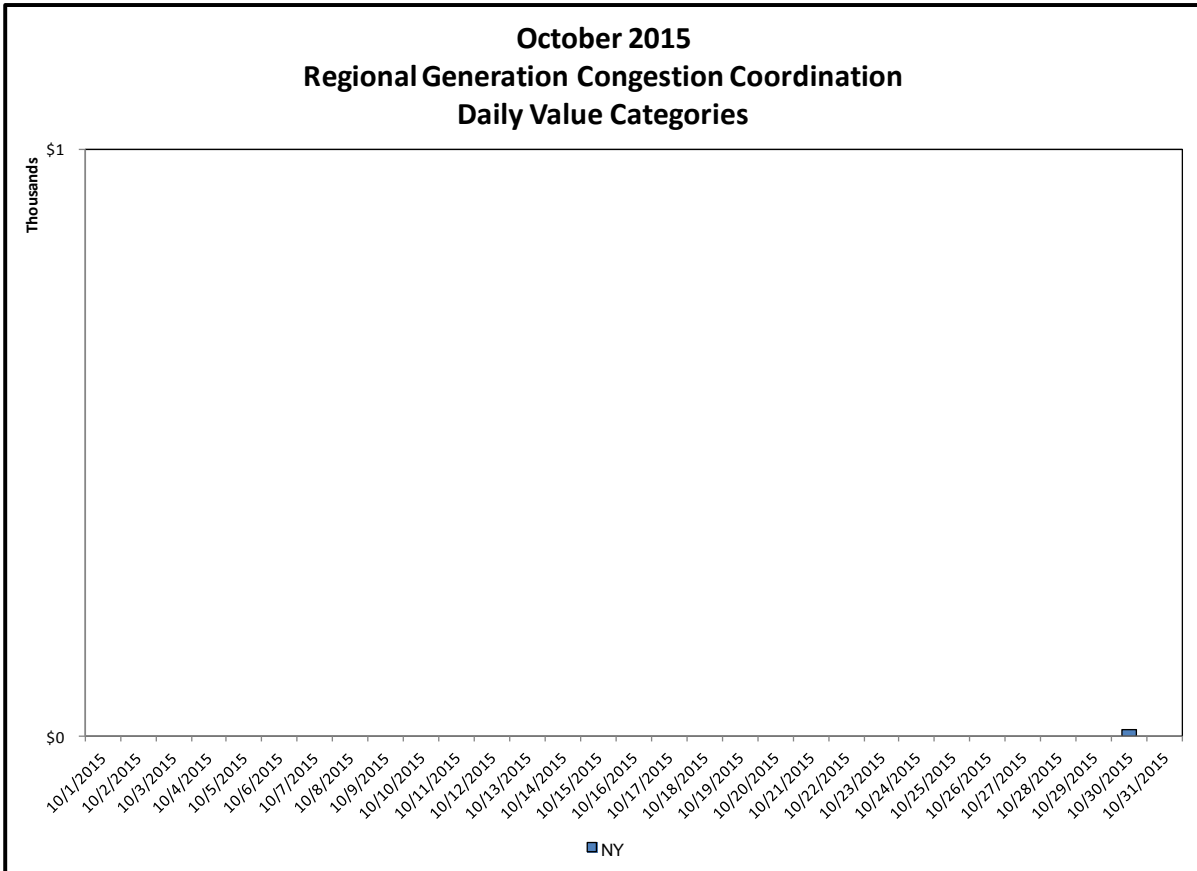
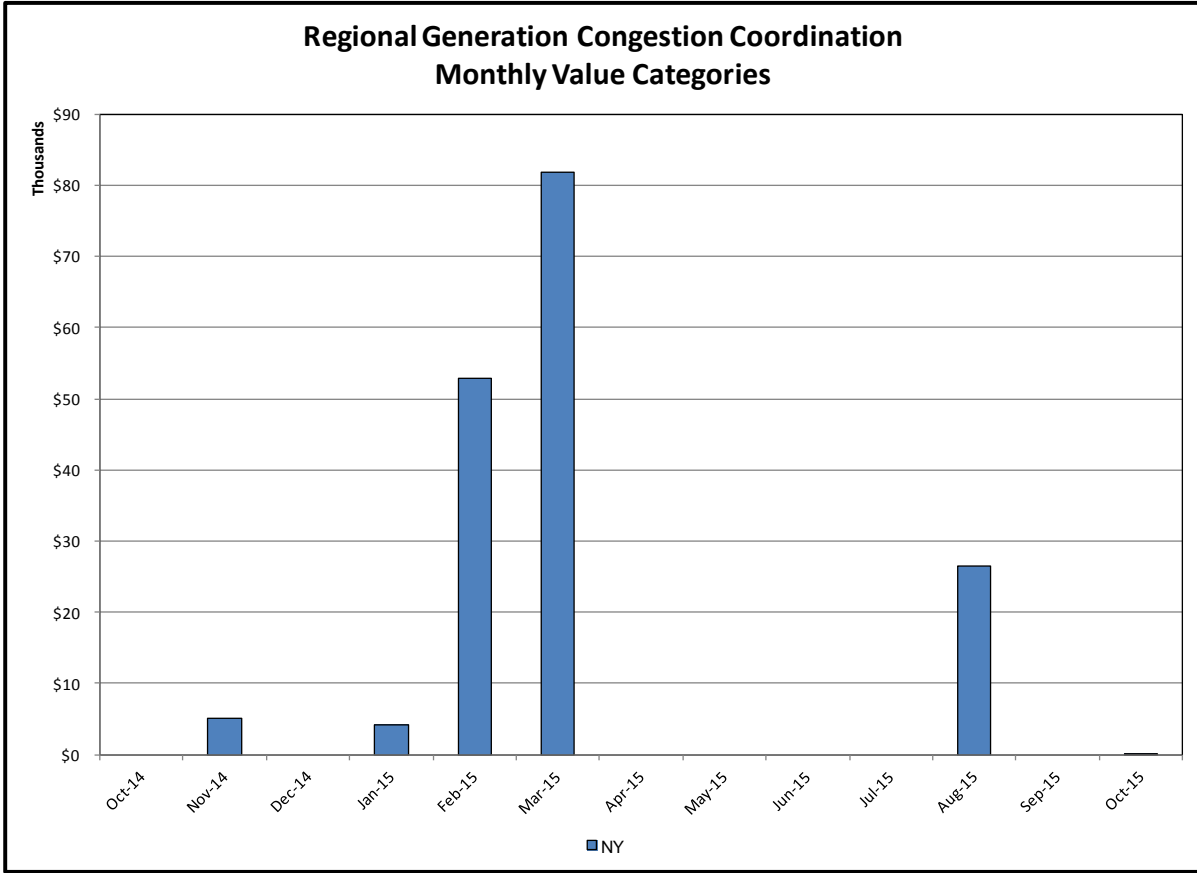


Broader Regional Market Performance Metrics



Ramapo Interconnection Congestion Coordination

<u>Category</u>	<u>Description</u>
NY	Represents the value NY realizes from Market-to-Market Ramapo Coordination. When experiencing congestion, this includes (1) the estimated savings to NY for additional deliveries into NY, plus (2) PJM compensation to NY for additional deliveries into PJM (as compared to the Ramapo Target level, excluding RECO). This is net of any settlements to PJM when they are congested.
RECO	Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This includes (1) the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018, plus (2) PJM compensation to NY for NYCA congestion for the under-delivery or inability to deliver service to RECO load over Ramapo 5018.



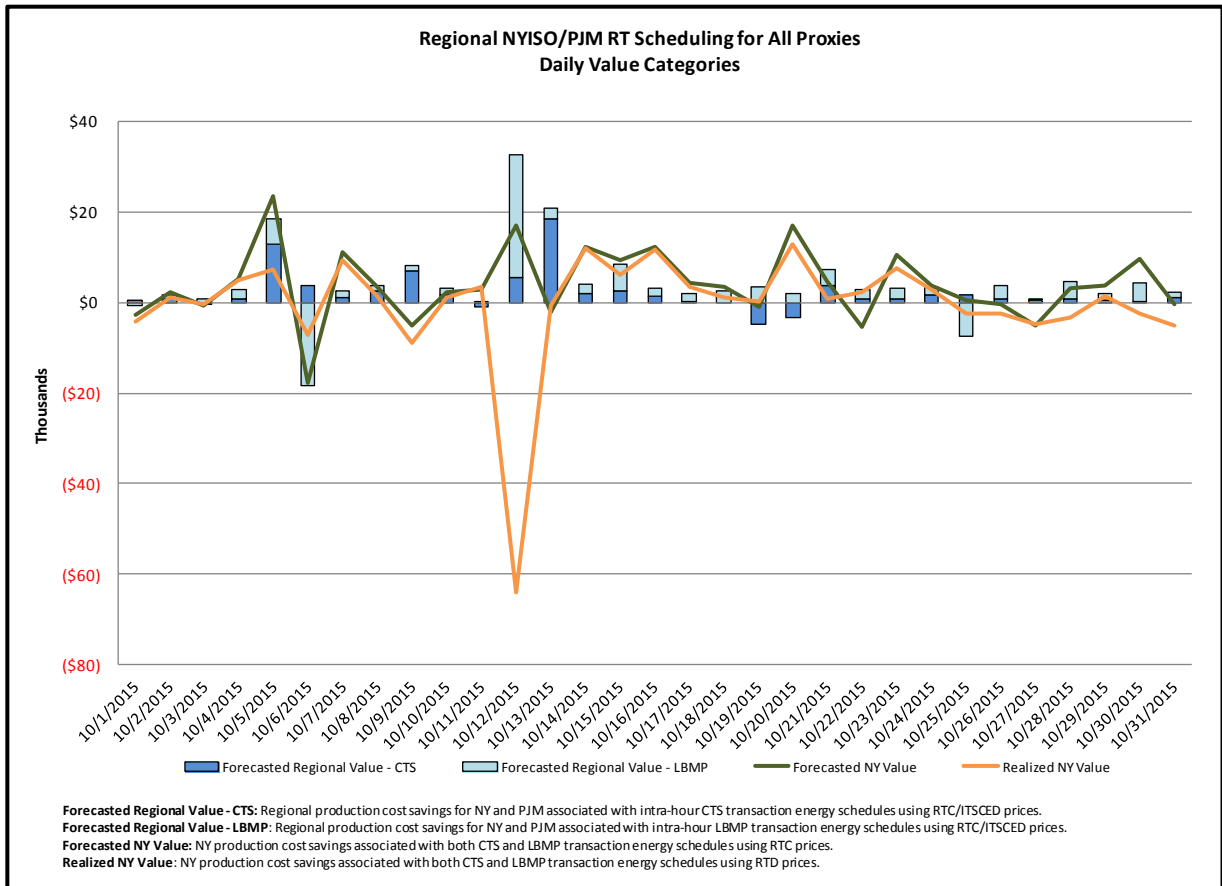
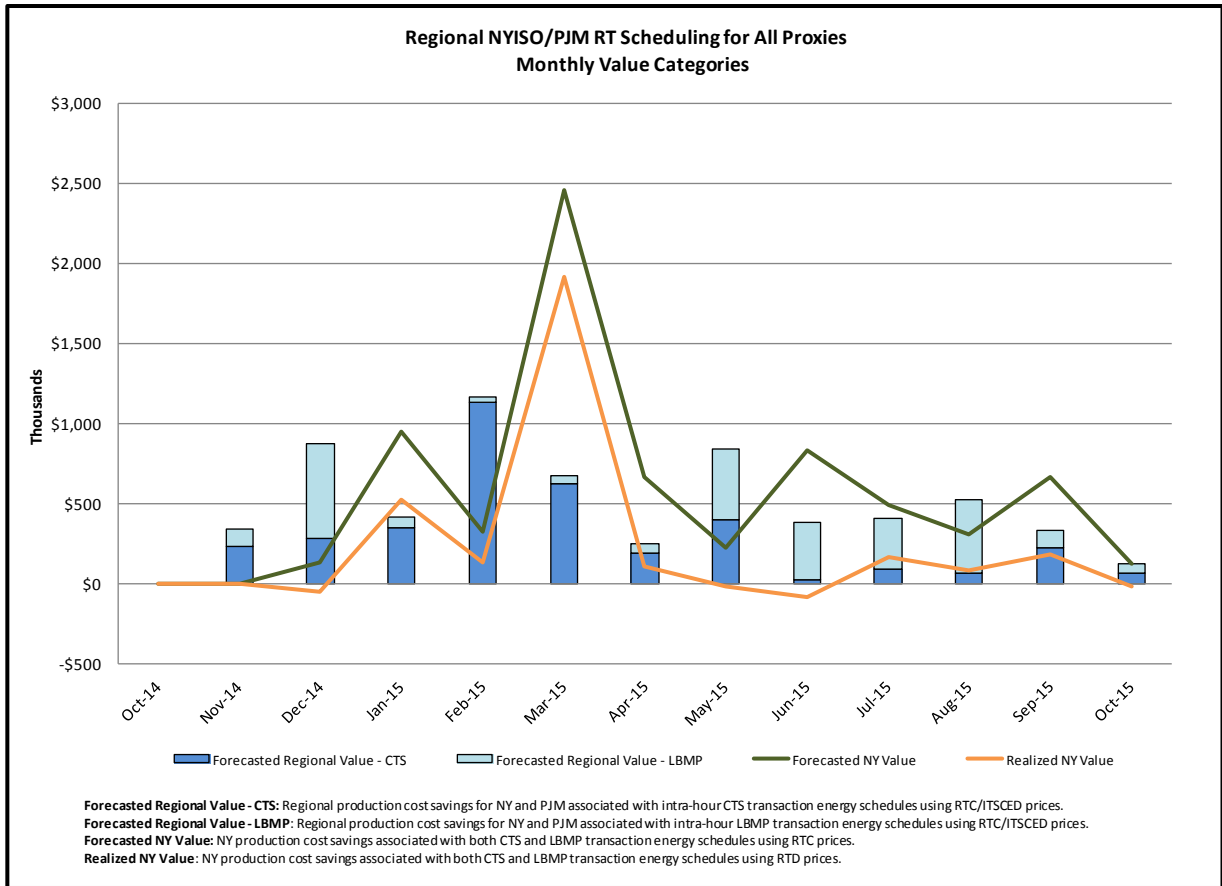
Regional Generation Congestion Coordination

Category

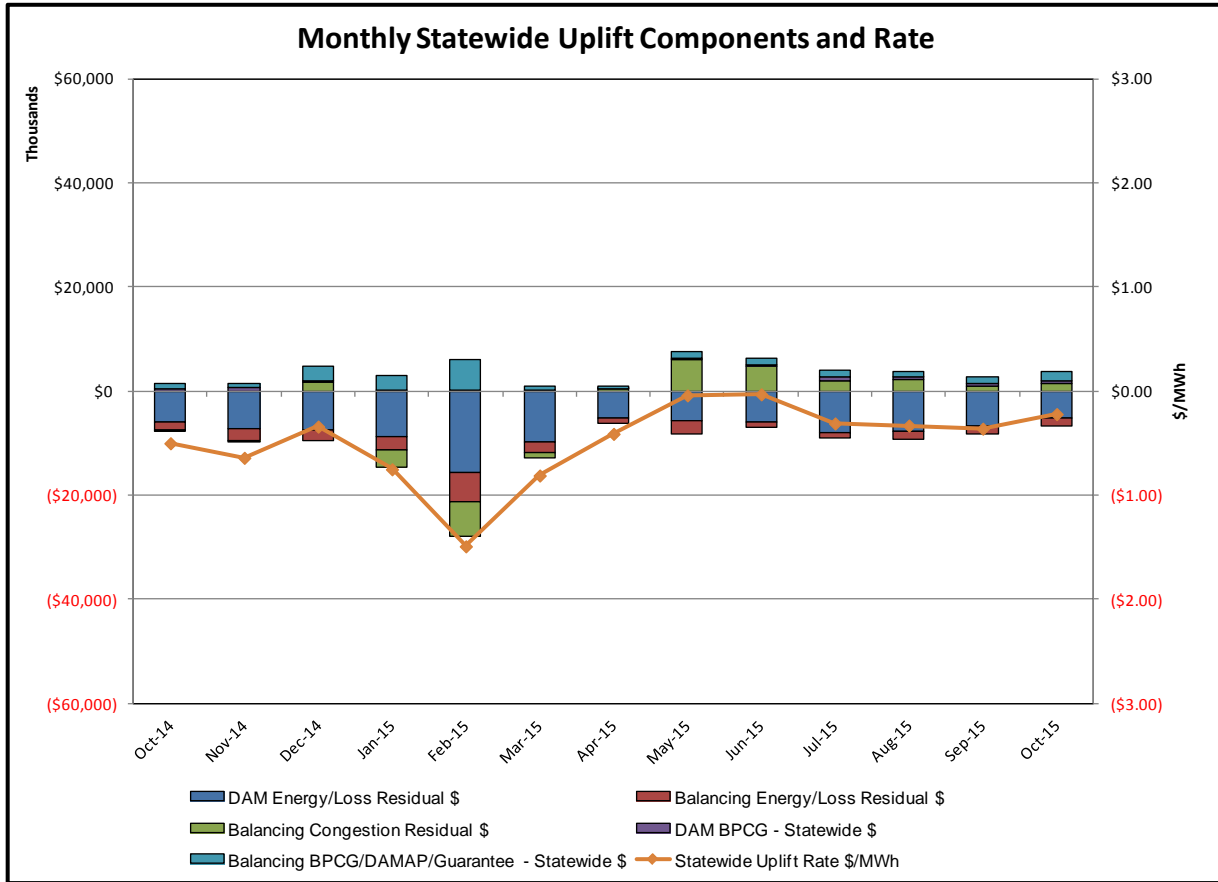
NY

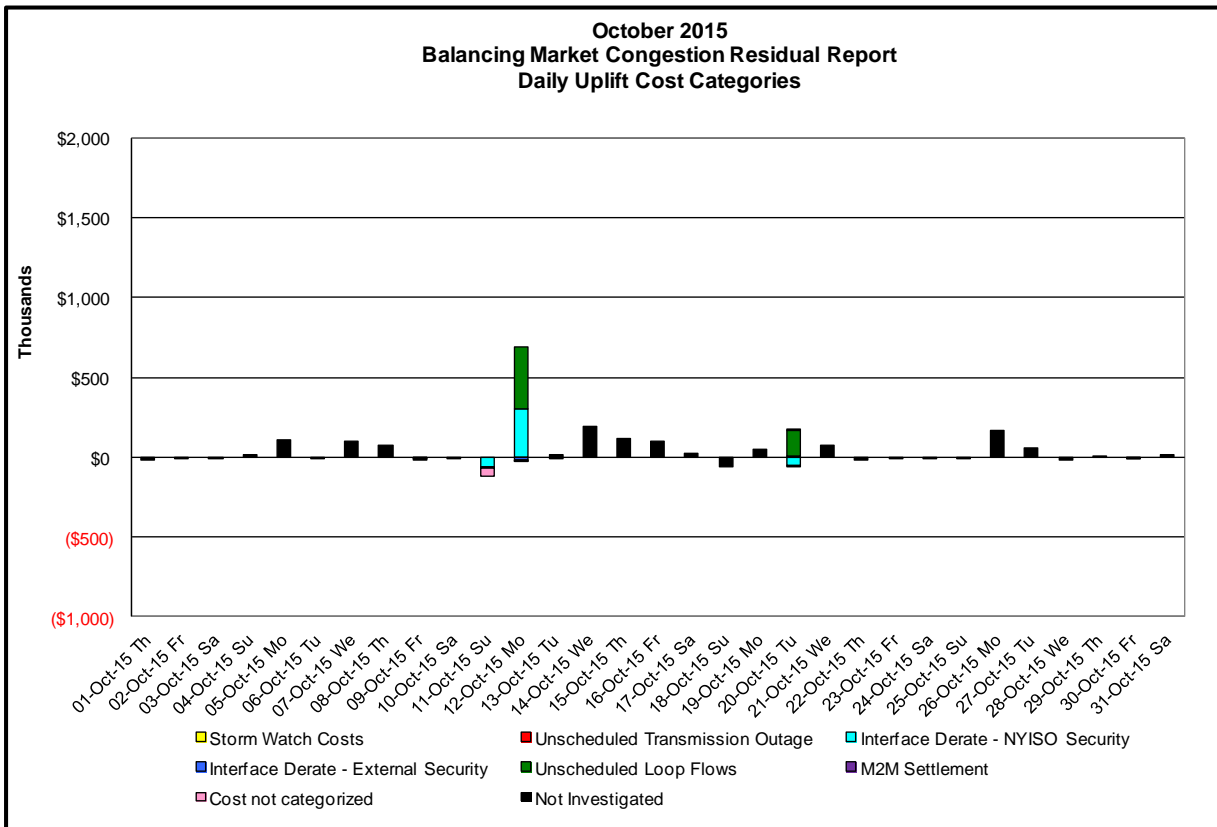
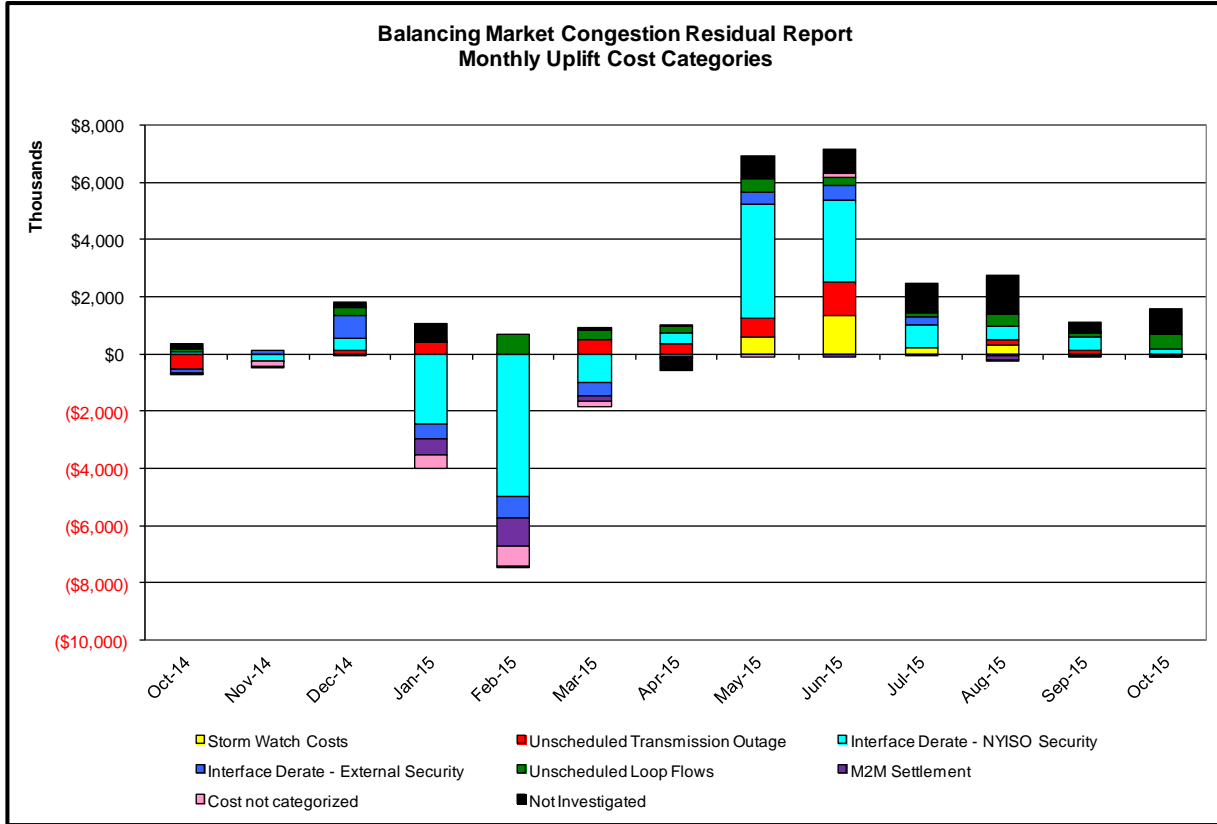
Description

NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization of PJM's generation resources to directly address Western or Central NY transmission congestion.



Market Performance Metrics





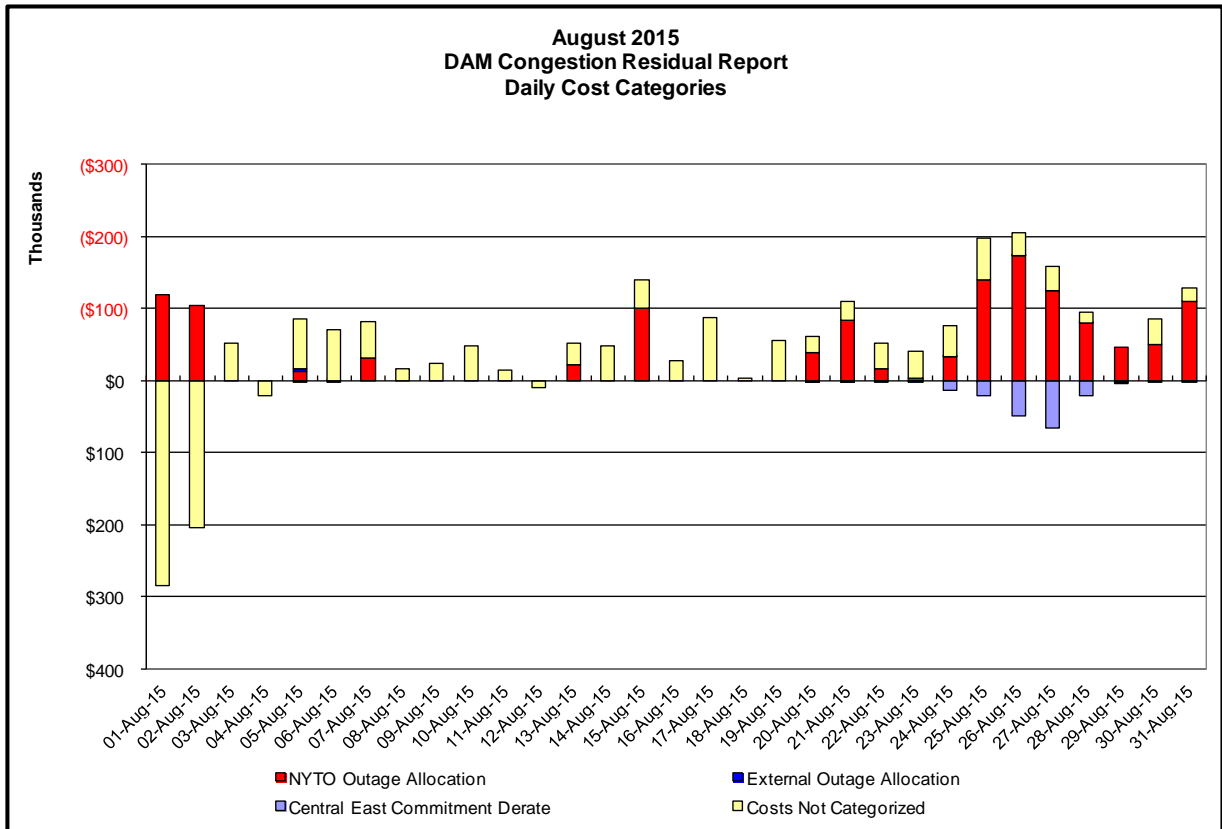
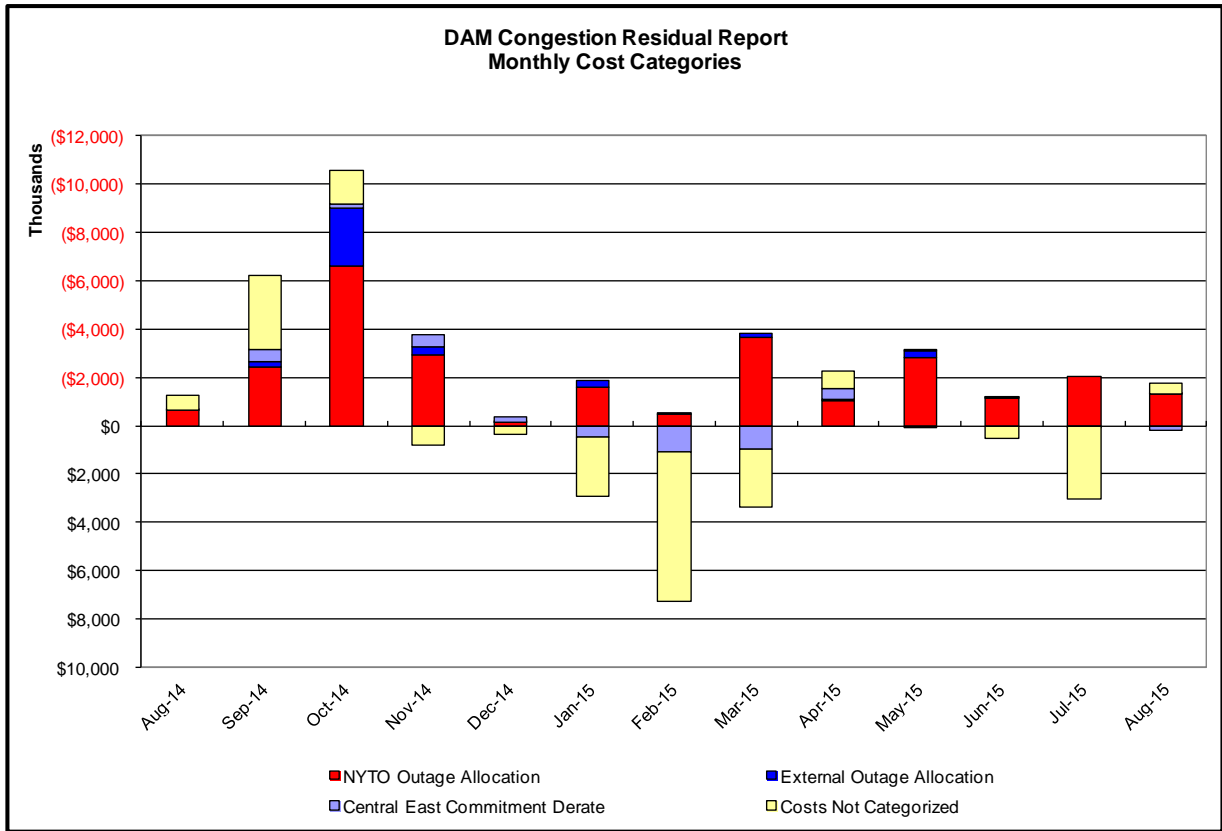
Day's investigated in October: 11, 12, 20			
Event	Date (yyyymmdd)	Hours	Description
	10/11/2015	7,20-23	Uprate Central East
	10/11/2015	12,13	Uprate Dunwoodie-Shore Road 345kV (#Y50) for I/o NEPTUNE HVDC TIE LINE
	10/11/2015	20,23	NE_AC-NY Scheduling Limit
	10/11/2015	23	PJM_AC DNI Ramp Limit
	10/12/2015	14,17,18	NYCA DNI Ramp Limit
	10/12/2015	0-2,6,7	Uprate Central East
	10/12/2015	8-13,15	Derate Dunwoodie-Shore Road 345kV (#Y50)
	10/12/2015	17	Derate Gowanus-Greenwood 138kV (#42232)
	10/12/2015	15-17	Derate Gowanus-Greenwood 138kV (#42231) for I/o \$SCB:GOW(6):25&42232 G23LM O/S
	10/12/2015	14,18	Uprate Greenwood-Vernon 230kV (#31231) for I/o \$SCB:GOW(6):25&42232 G23LM O/S
	10/12/2015	4,6	Uprate Moses South
	10/12/2015	9-13,15,16	Derate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76
	10/12/2015	10,11	Derate Packard-Sawyer 230kV (#77) for I/o Packard-Sawyer 230kV (#78)
	10/12/2015	14	Uprate Packard-Sawyer 230kV (#77) for I/o Packard-Sawyer 230kV (#78)
	10/12/2015	17	Derate Rainey-Vernon 138kV (#36312)
	10/12/2015	0,14	PJM_AC DNI Ramp Limit
	10/12/2015	18	NE_NNC1385-NY scheduling Limit
	10/12/2015	8-13,15,16	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Niagara-Packard 230kV (#61)
	10/12/2015	16	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Central East
	10/12/2015	10,11,13,15,17	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230kV (#77)
	10/20/2015	16,17	Derate Central East
	10/20/2015	5,6	Uprate Central East
	10/20/2015	12,13,22	Uprate Gowanus-Greenwood 138kV (#42231) for I/o \$SCB:GOW(6):G23LM&GRENWD 7N O/S
	10/20/2015	8	Uprate Greenwood-Vernon 138kV (#31231) for I/o \$SCB:GOW(6):25&42232/GWD 7N O/S
	10/20/2015	12,13,22	Uprate Greenwood-Vernon 138kV (#31231) for I/o \$SCB:GOW(6):G23LM&GRENWD 7N O/S
	10/20/2015	12,13,18	Uprate Moses South
	10/20/2015	18	Uprate Packard-Sawyer 230kV (#77) for I/o Packard-Sawyer 230kV (#78)
	10/20/2015	4,	Derate SprainBrook-East Garden City 345kV (#Y49) for I/o Dunwoodie-Shore Road 345kV (#Y50)
	10/20/2015	21	NE_AC-NY Scheduling Limit
	10/20/2015	16,17	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Central East
	10/20/2015	17,19	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Niagara-Packard 230kV (#61)

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Clockwise Lake Erie Loop Flows greater than 125 MW
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates	

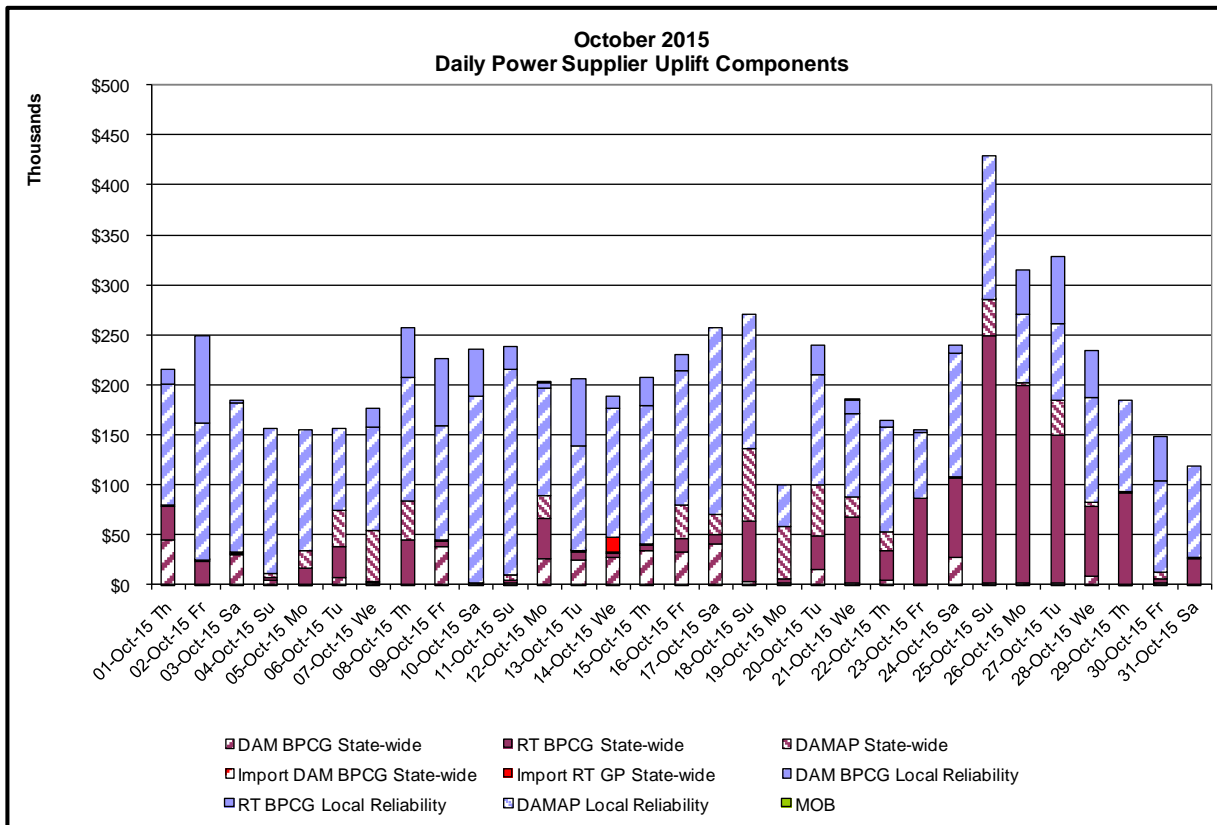
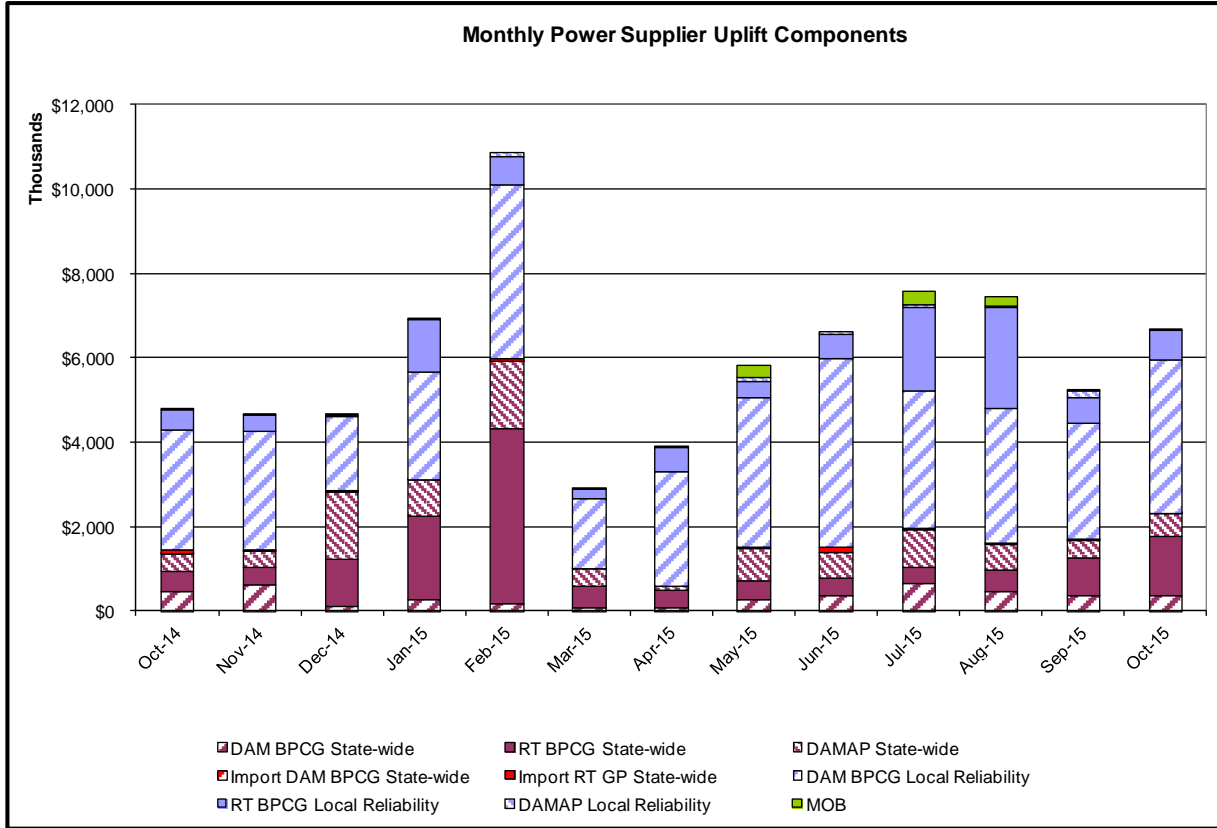
Monthly Balancing Market Congestion Report Assumptions/Notes

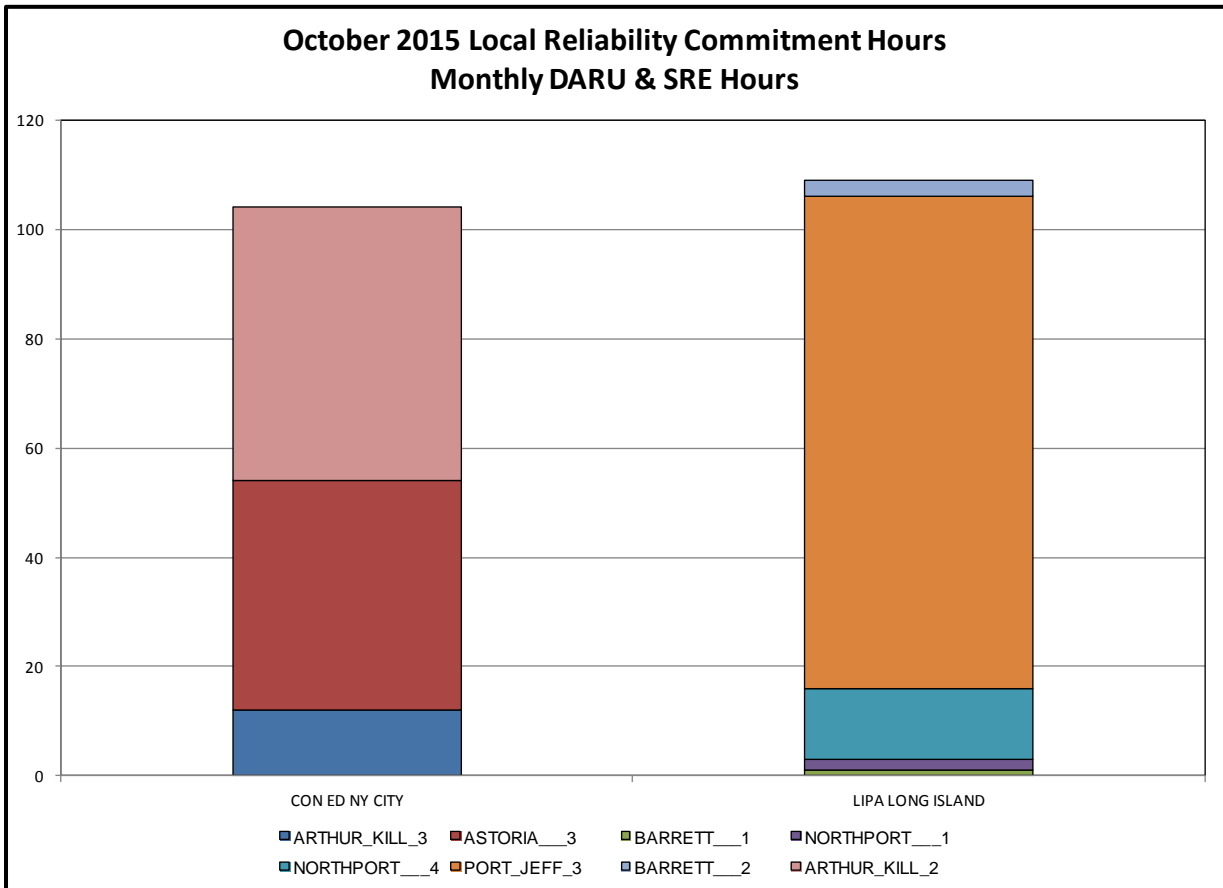
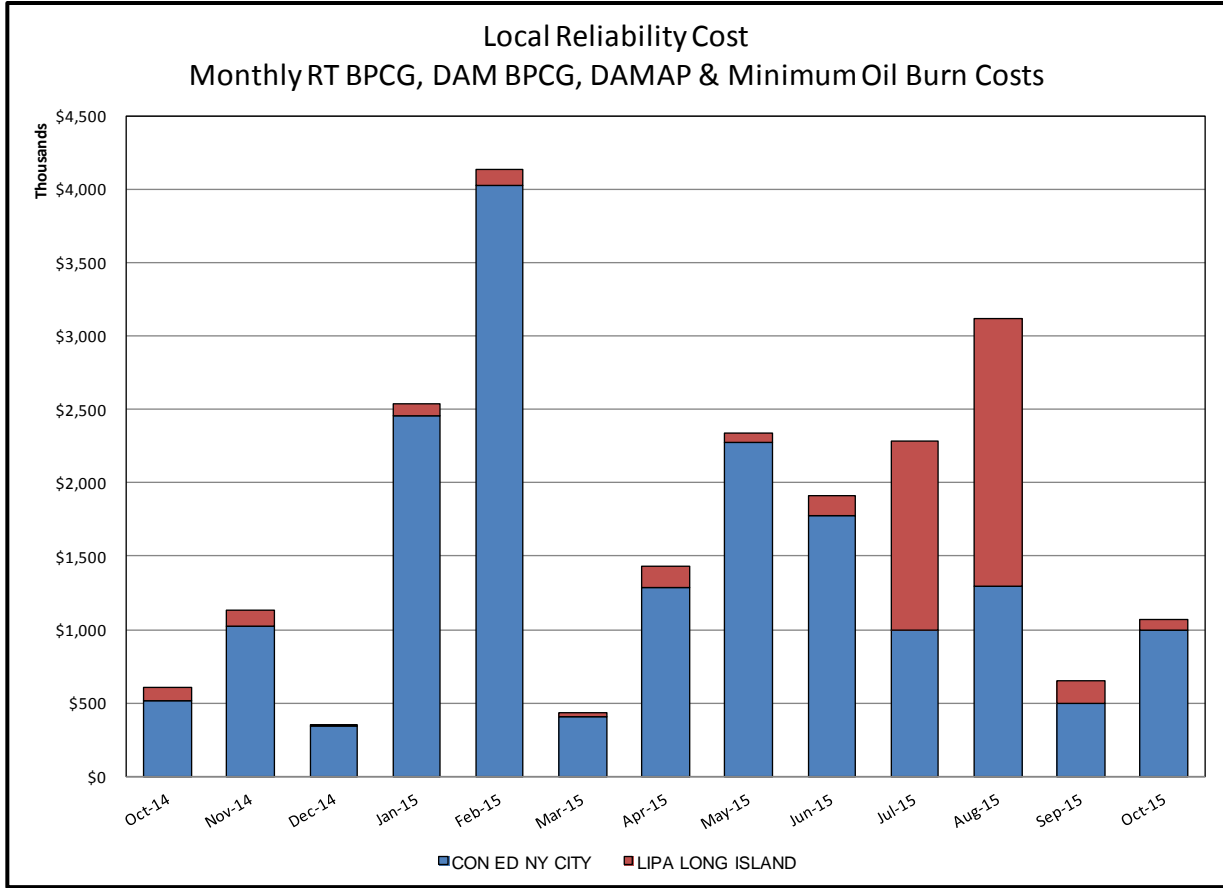
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

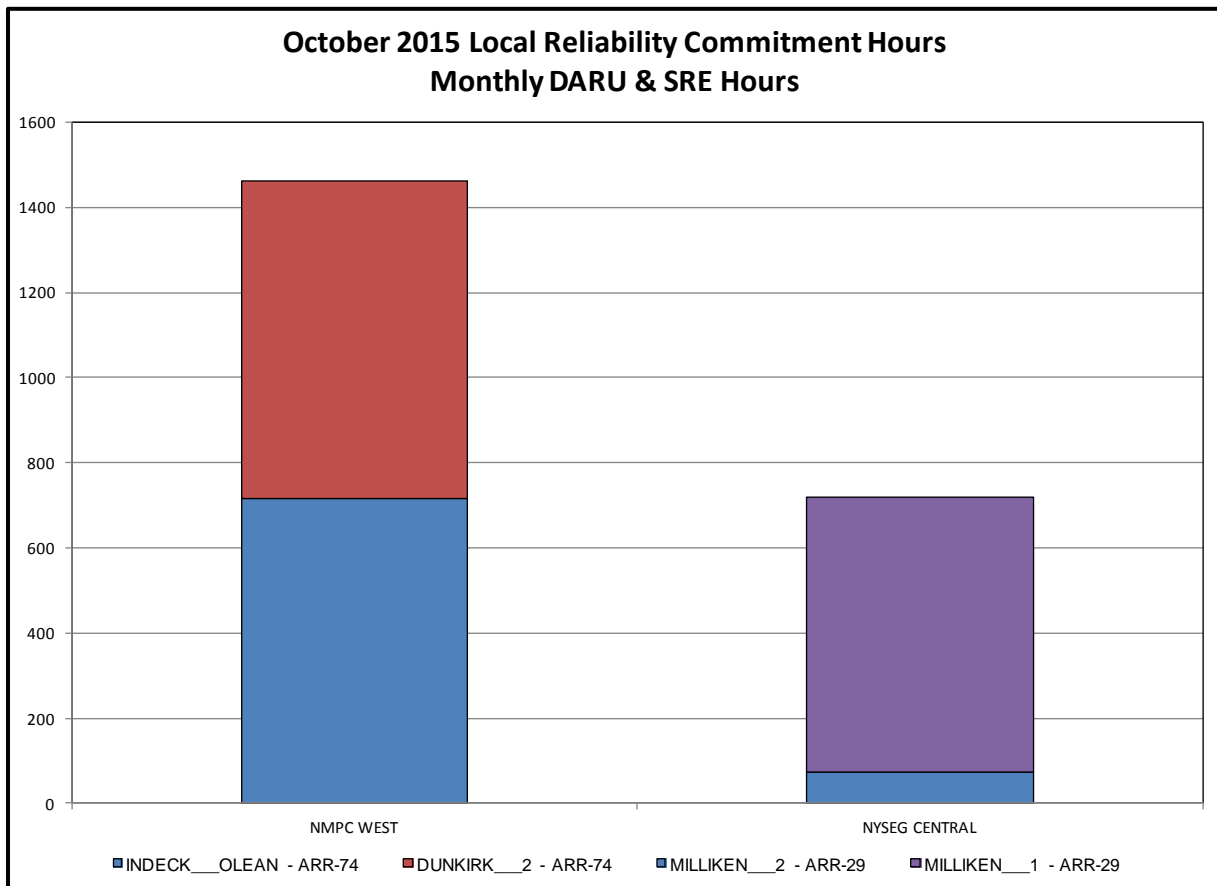
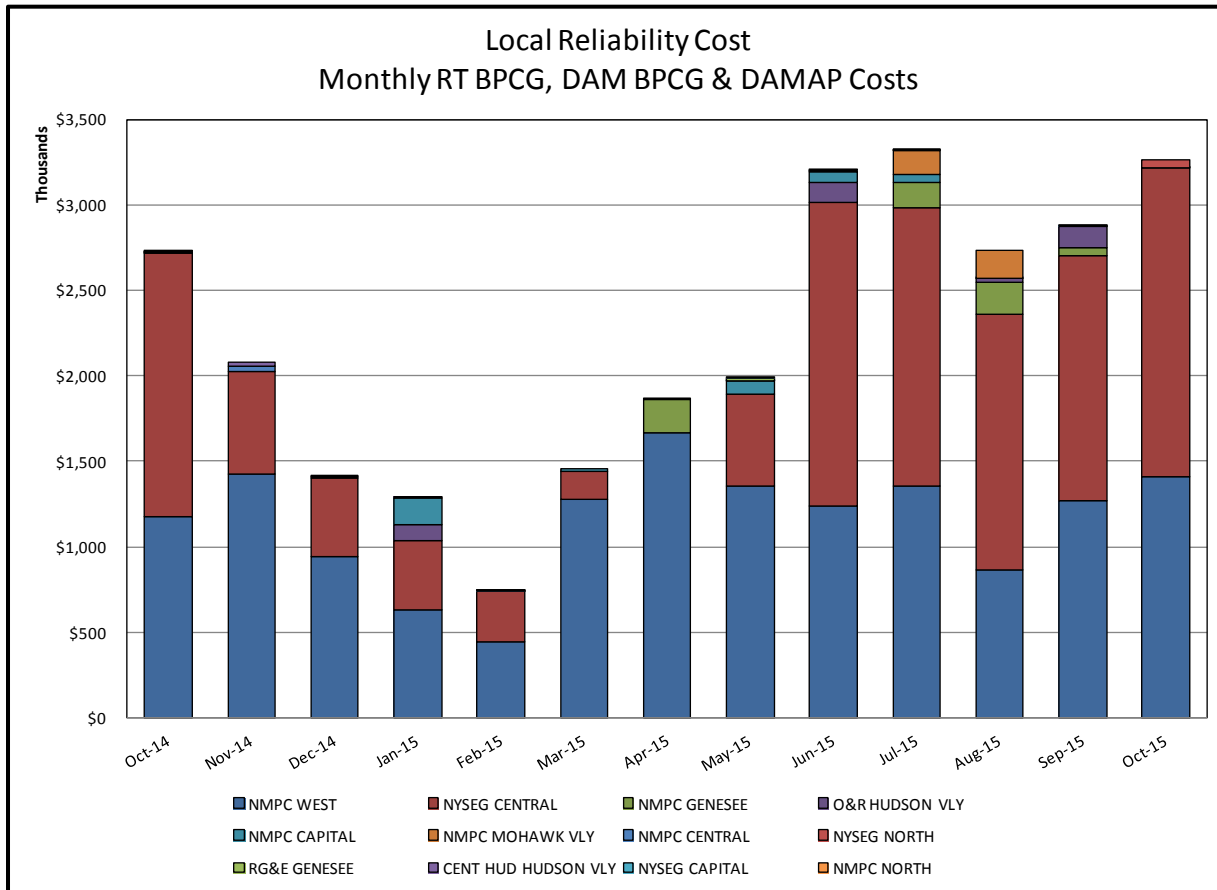


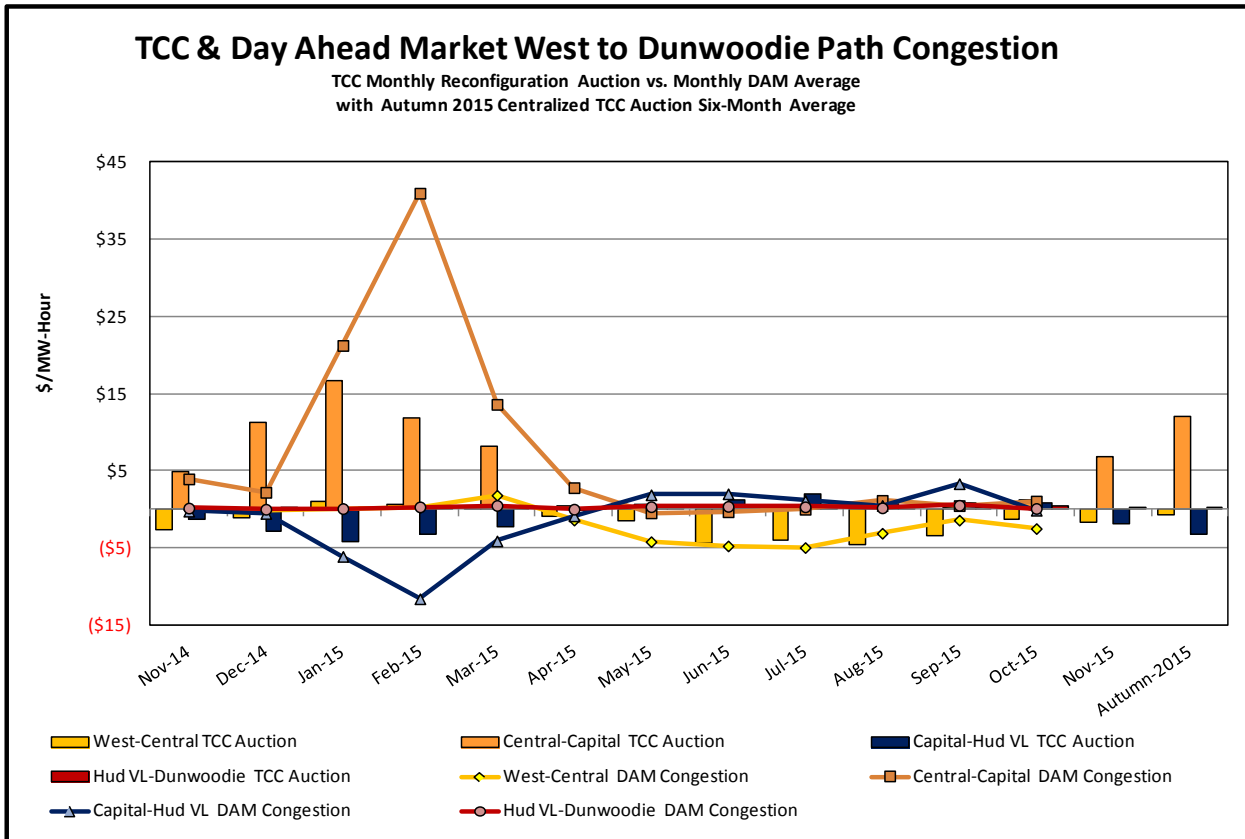
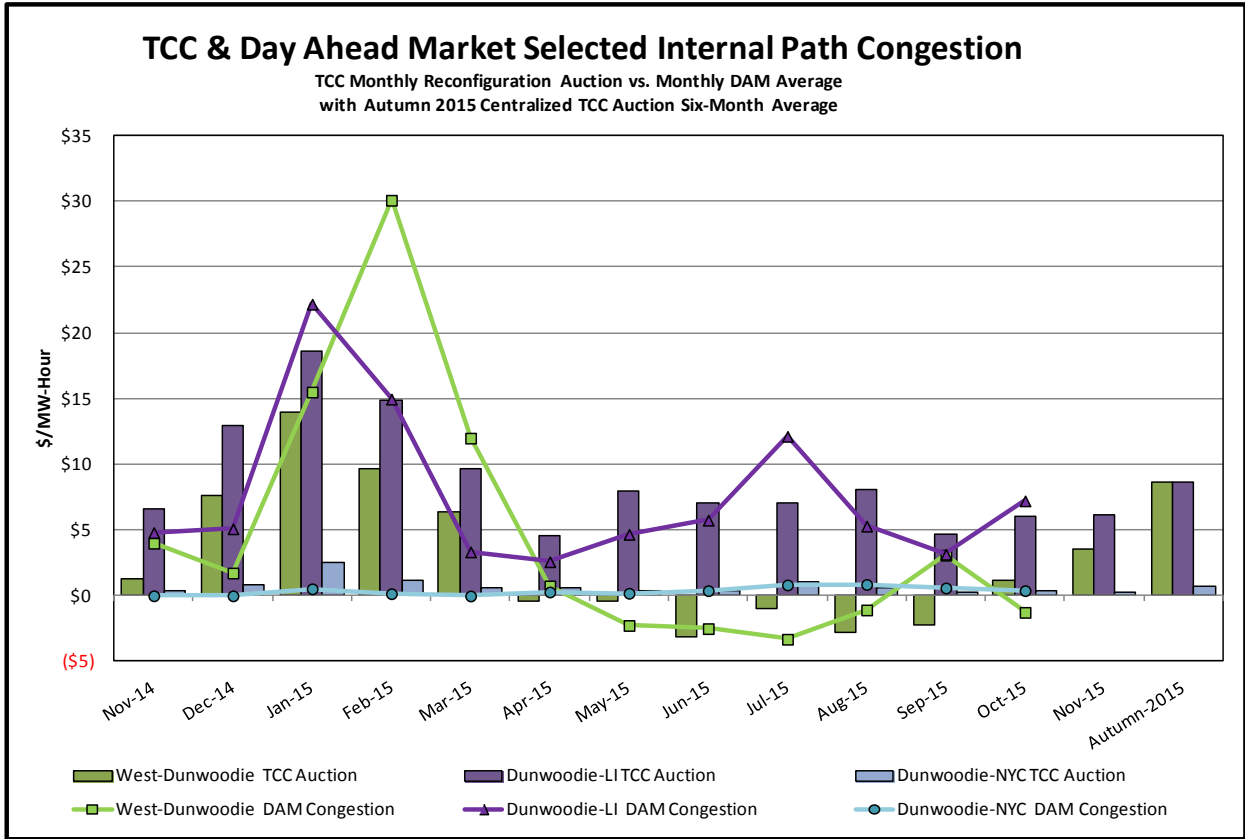
Day-Ahead Market Congestion Residual Categories

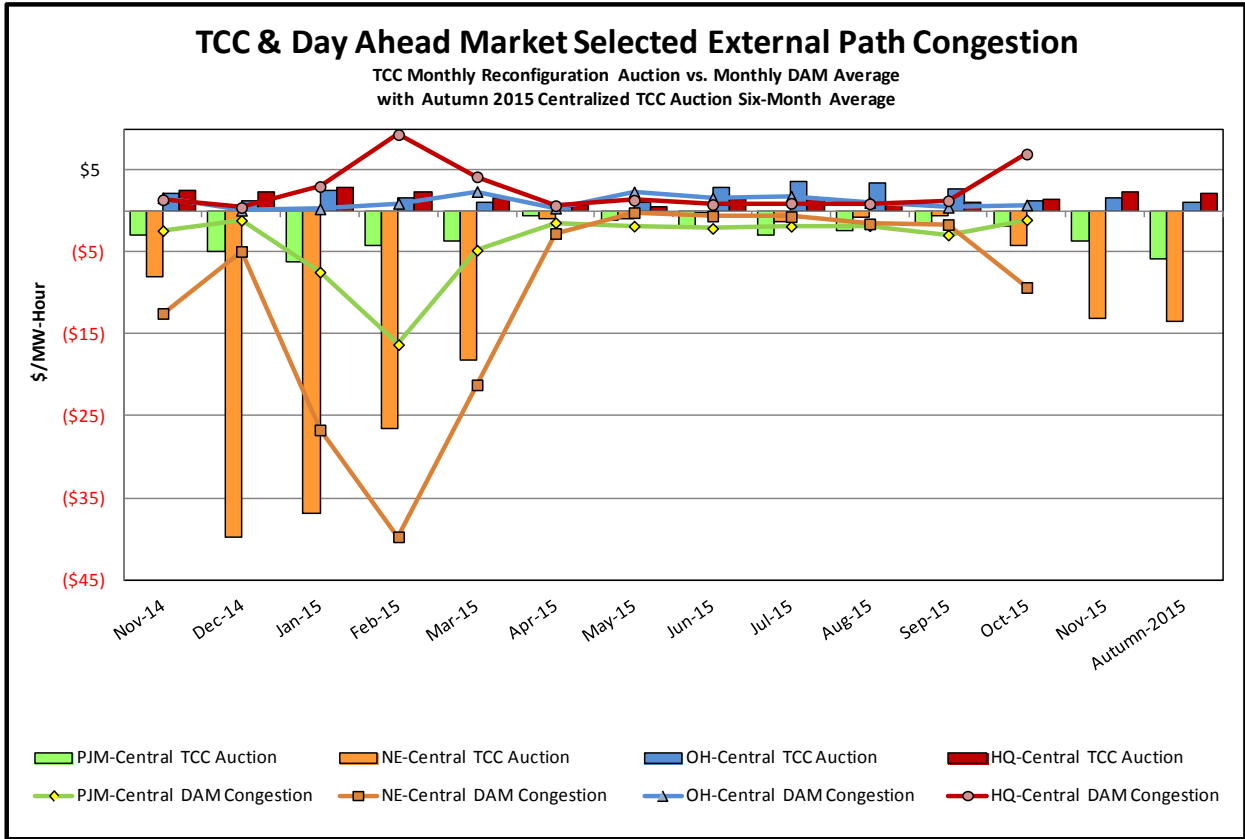
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
External Outage Allocation	All TO by Monthly Allocation Factor	Direct allocation to transmission equipment status change caused by change in status of external equipment.	Tie line required out-of-service by TO of neighboring control area.
Central East Commitment Derate	All TO by Monthly Allocation Factor	Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages.	



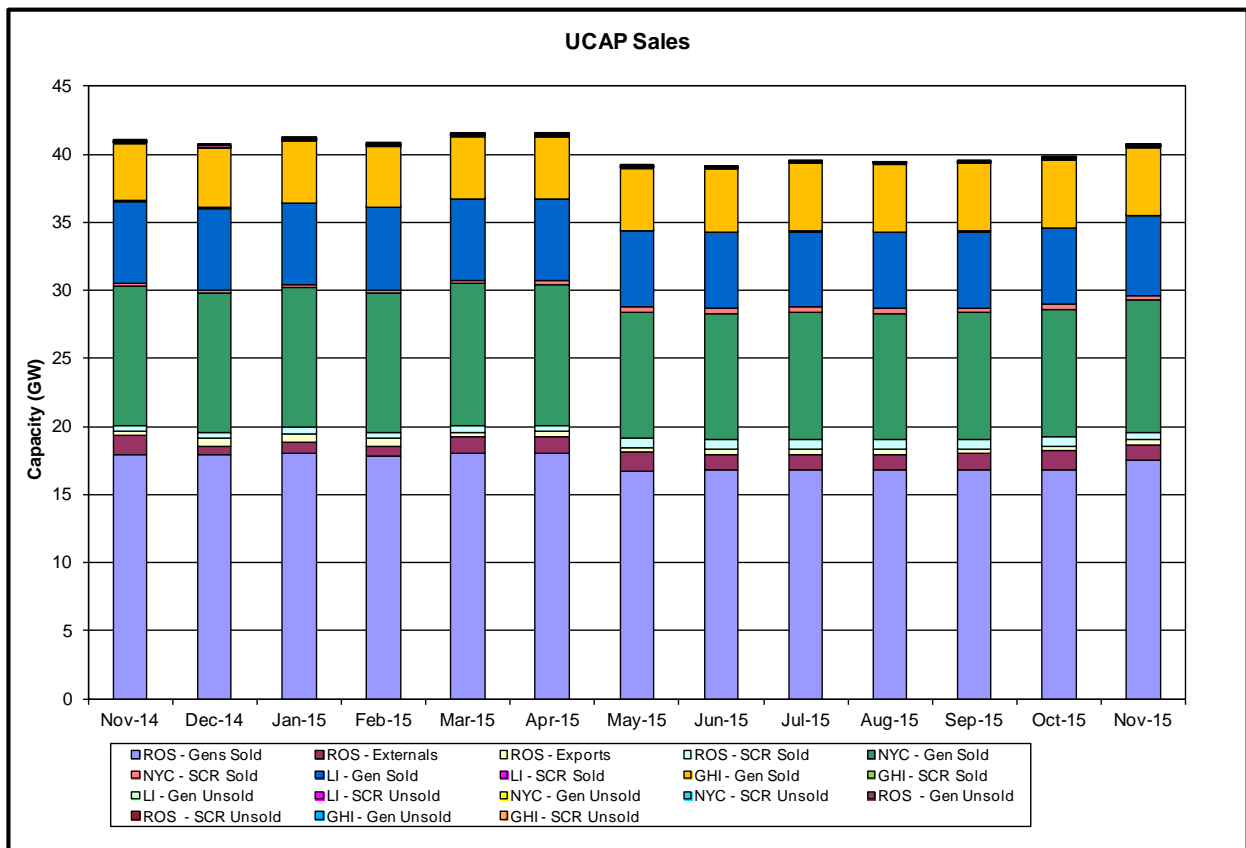
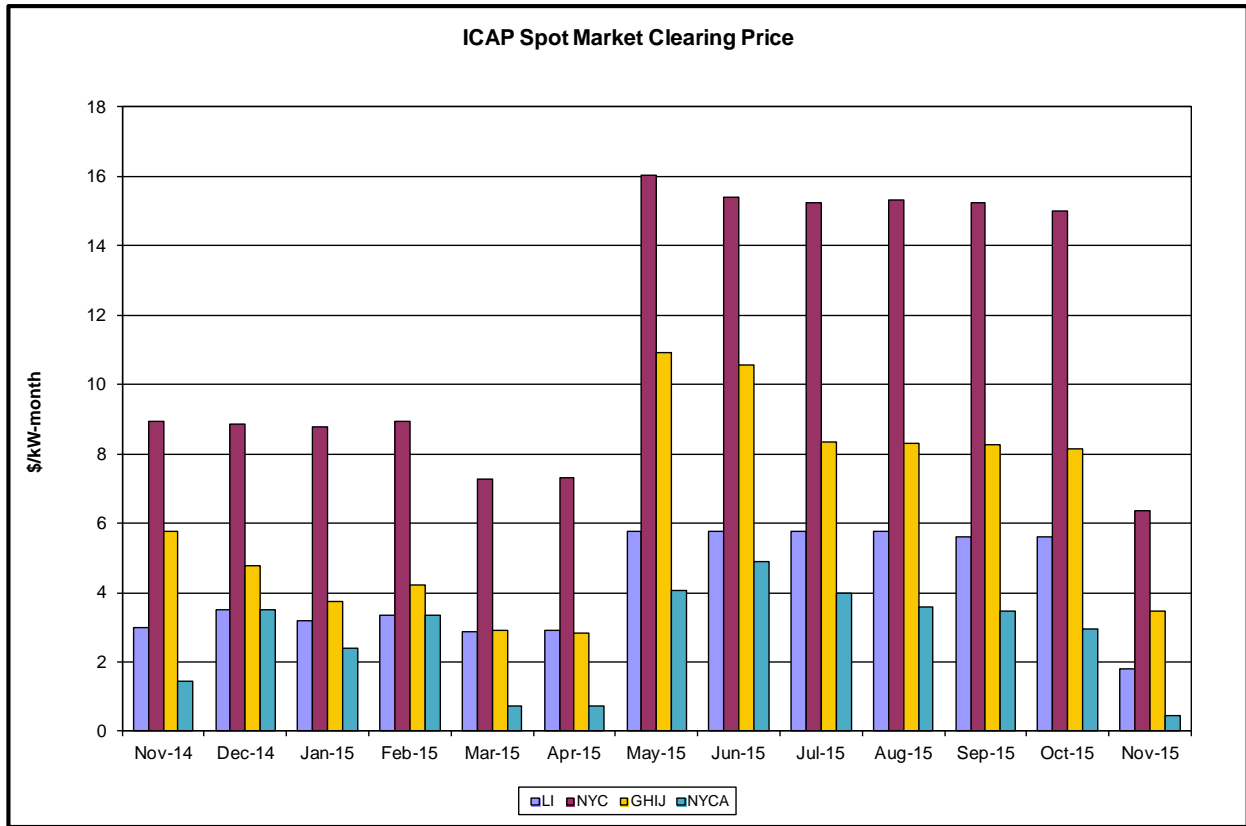








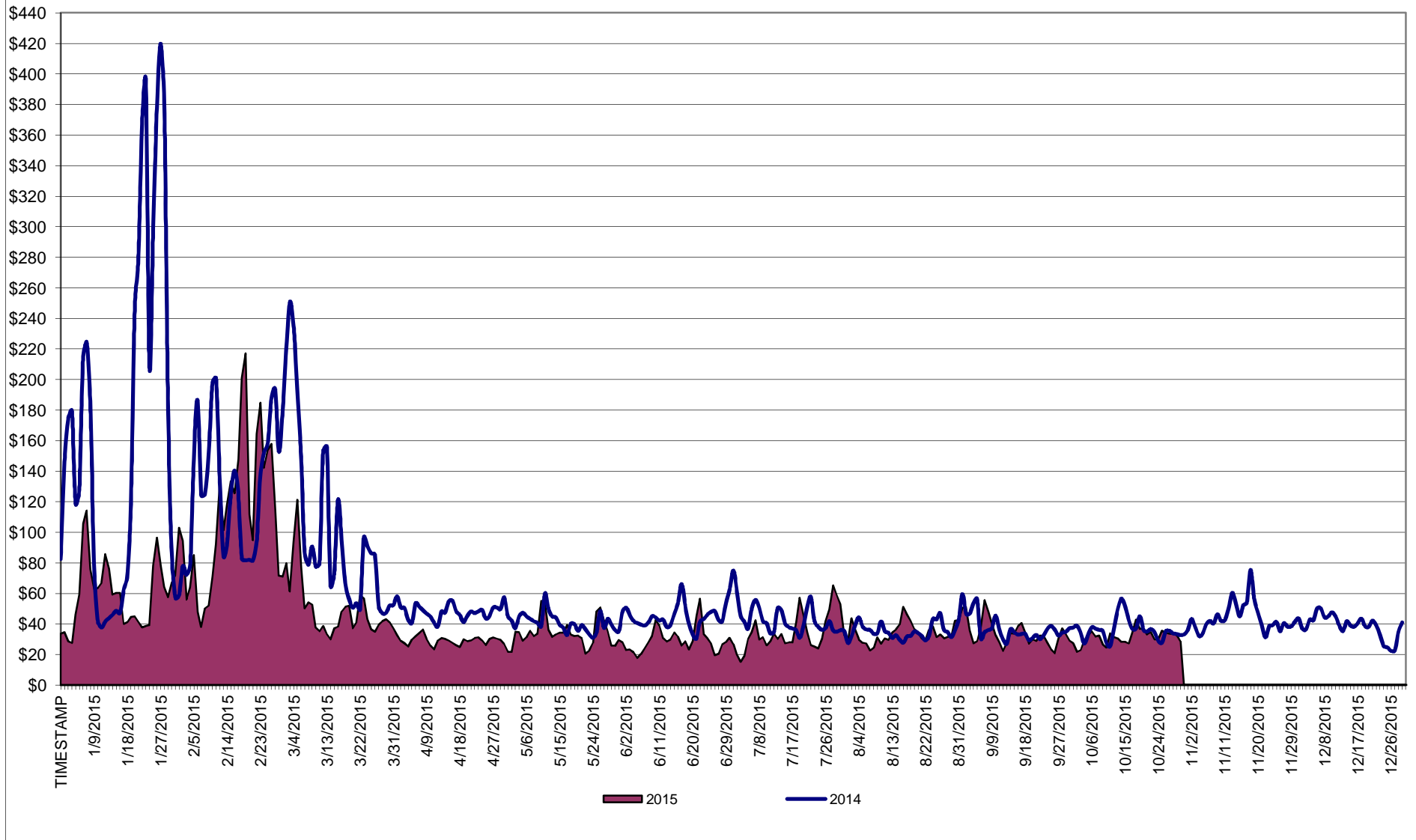
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Market Performance Highlights for October 2015

- **LBMP for October is \$30.03/MWh; lower than \$34.39/MWh in September 2015 and \$35.61/MWh in October 2014.**
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to September.
 - This is the lowest LBMP for the month of October during NYISO operation.
- **October 2015 average year-to-date monthly cost of \$47.17/MWh is a 37% decrease from \$74.63/MWh in October 2014.**
- **Average daily sendout is 389 GWh/day in October; lower than 473 GWh/day in September 2015 and 394 GWh/day in October 2014.**
- **Natural gas prices were higher compared to the previous month and distillate prices were lower compared to the previous month.**
 - Natural Gas (Transco Z6 NY) was \$2.16/MMBtu, up from \$2.09/MMBtu in September.
 - Jet Kerosene Gulf Coast was \$10.33/MMBtu, down from \$10.39/MMBtu in September.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$10.53/MMBtu, down from \$10.79/MMBtu in September.
- **Uplift per MWh is higher compared to the previous month.**
 - Uplift (not including NYISO cost of operations) is \$0.11/MWh; higher than (\$0.14)/MWh in September.
 - The Local Reliability Share is \$0.33/MWh, higher than \$0.22 in September.
 - The Statewide Share is (\$0.22)/MWh, higher than (\$0.37)/MWh in September.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than September.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
 2014 Annual Average \$69.31/MWh
 October 2014 YTD Average \$74.63/MWh
 October 2015 YTD Average \$47.17/MWh



* Excludes ICAP payments.

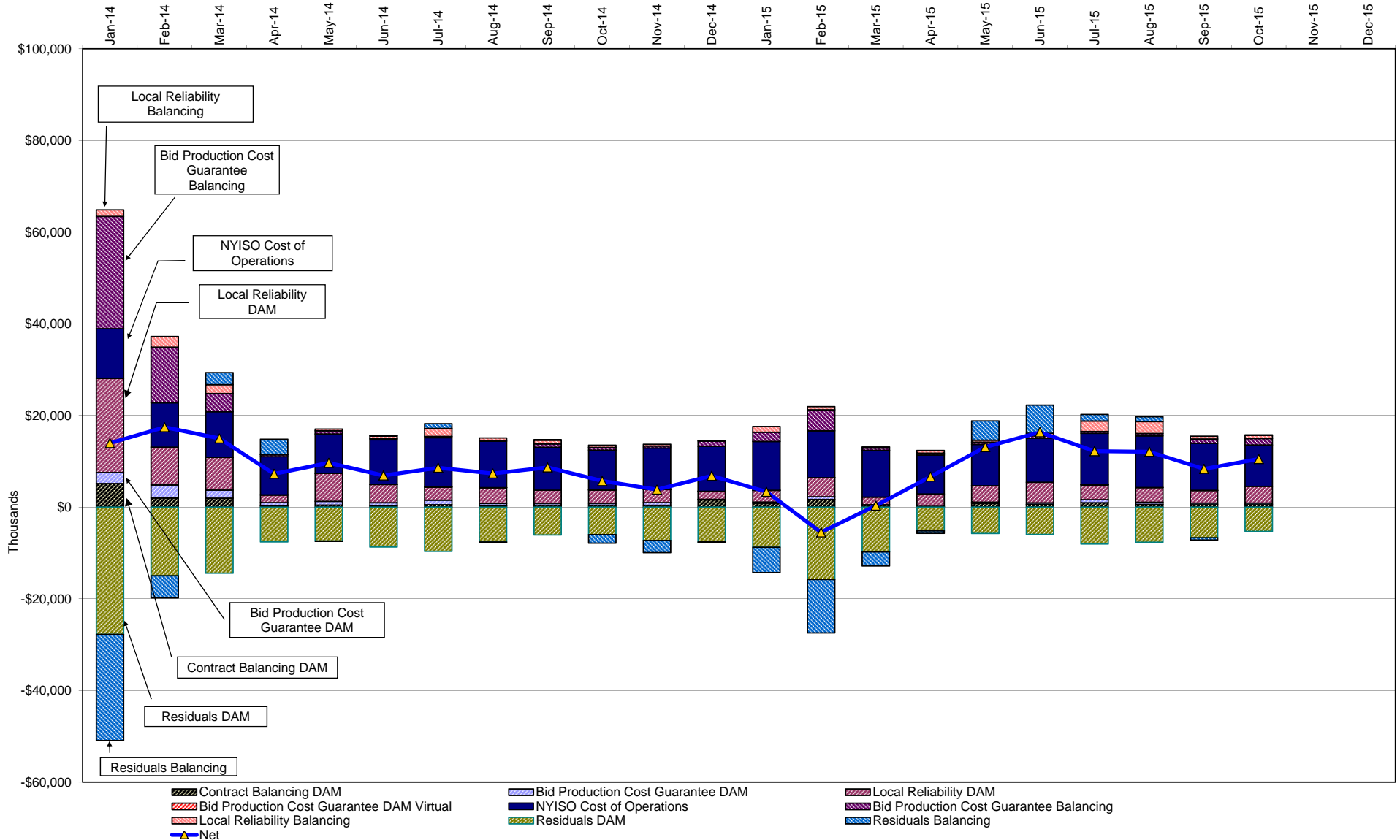
NYISO Average Cost/MWh (Energy and Ancillary Services) *
from the LBMP Customer point of view

2015	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	59.61	114.37	52.09	28.36	32.98	28.20	34.78	33.09	34.39	30.03		
NTAC	0.32	0.35	0.41	0.64	0.56	0.80	0.55	0.60	0.73	0.54		
Reserve	0.27	0.37	0.56	0.36	0.38	0.24	0.27	0.20	0.28	0.28		
Regulation	0.10	0.18	0.11	0.12	0.10	0.13	0.12	0.12	0.10	0.12		
NYISO Cost of Operations	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70		
Uplift	(0.48)	(1.08)	(0.68)	(0.15)	0.26	0.33	0.04	0.03	(0.14)	0.11		
Uplift: Local Reliability Share	0.25	0.33	0.13	0.27	0.30	0.37	0.34	0.36	0.22	0.33		
Uplift: Statewide Share	(0.73)	(1.41)	(0.81)	(0.42)	(0.05)	(0.04)	(0.31)	(0.33)	(0.37)	(0.22)		
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		
Avg Monthly Cost	60.91	115.27	53.58	30.41	35.37	30.79	36.84	35.13	36.45	32.17		
Avg YTD Cost	60.91	87.74	76.64	66.82	60.96	56.02	52.77	50.20	48.60	47.17		
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.17	0.50	0.07	0.06	0.01	0.00		
2014	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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.
Market Mitigation and Analysis
Prepared: 11/5/2015 10:37 AM

Data reflects true-ups thru June 2015.

NYISO Dollar Flows - Uplift- OATT Schedule 1 components - Data through October 31, 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	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh												
DAM LSE Internal LBMP Energy Sales	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		
DAM External TC LBMP Energy Sales	55%	54%	53%	55%	57%	57%	62%	61%	58%	53%		
DAM Bilateral - Internal Bilaterals	5%	6%	6%	4%	2%	1%	1%	1%	3%	6%		
DAM Bilateral - Import/Non-LBMP Market Bilaterals	35%	33%	33%	33%	35%	33%	30%	31%	31%	34%		
DAM Bilateral - Export/Non-LBMP Market Bilaterals	3%	5%	5%	6%	4%	5%	4%	4%	5%	5%		
DAM Bilateral - Wheel Through Bilaterals	2%	2%	1%	2%	1%	1%	1%	1%	1%	2%		
	0%	1%	1%	1%	0%	2%	2%	2%	2%	1%		
Balancing Energy Market MWh												
Balancing Energy LSE Internal LBMP Energy Sales	-650,944	-296,616	-396,739	-409,205	-331,091	-549,794	-500,469	-225,362	-31,706	-595,704		
Balancing Energy External TC LBMP Energy Sales	-149%	-247%	-192%	-147%	-142%	-106%	-121%	-139%	-357%	-116%		
Balancing Energy Bilateral - Internal Bilaterals	30%	113%	64%	36%	35%	16%	25%	51%	115%	13%		
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	13%	14%	19%	5%	6%	6%	13%	25%	251%	7%		
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%		
Balancing Energy Bilateral - Wheel Through Bilaterals	6%	8%	12%	12%	10%	4%	3%	8%	48%	5%		
	0%	12%	-4%	-5%	-9%	-22%	-21%	-44%	-157%	-9%		
Transactions Summary												
LBMP	58%	59%	57%	57%	58%	57%	61%	61%	61%	56%		
Internal Bilaterals	37%	34%	35%	35%	36%	35%	32%	32%	32%	36%		
Import Bilaterals	3%	5%	5%	6%	4%	5%	5%	5%	5%	5%		
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%		
Wheels Through	0%	1%	1%	0%	0%	1%	1%	1%	1%	0%		
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%		
Balancing Energy +	-4.3%	-2.0%	-2.7%	-3.4%	-2.6%	-4.0%	-3.1%	-1.4%	-0.2%	-4.6%		
Total MWh	15,310,362	14,670,755	14,662,468	12,180,116	12,960,826	13,727,505	16,072,558	16,108,570	14,709,201	12,950,329		
Average Daily Energy Sendout/Month GWh	462	481	436	387	409	450	512	511	473	389		
2014												
Day Ahead Market MWh												
DAM LSE Internal LBMP Energy Sales	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 External TC LBMP Energy Sales	52%	50%	53%	56%	53%	54%	58%	57%	56%	54%	54%	54%
DAM Bilateral - Internal Bilaterals	5%	7%	6%	3%	2%	3%	1%	0%	1%	2%	5%	5%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	36%	36%	35%	33%	38%	36%	34%	35%	36%	38%	36%	36%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	5%	4%	3%	3%	3%
DAM Bilateral - Wheel Through Bilaterals	2%	1%	1%	2%	2%	1%	1%	1%	2%	2%	2%	2%
	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	0%	0%
Balancing Energy Market MWh												
Balancing Energy LSE Internal LBMP Energy Sales	-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 External TC LBMP Energy Sales	-232%	-203%	-294%	-190%	-133%	-114%	-116%	-117%	-129%	-124%	-134%	-137%
Balancing Energy Bilateral - Internal Bilaterals	105%	76%	97%	207%	21%	22%	18%	15%	24%	14%	20%	28%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	20%	26%	69%	27%	3%	7%	4%	7%	7%	7%	9%	4%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	0%	0%	12%	0%	3%	0%	0%	0%	2%	1%	0%	0%
Balancing Energy Bilateral - Wheel Through Bilaterals	11%	6%	25%	67%	4%	3%	2%	2%	3%	3%	5%	3%
	-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%
Wheels Through	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	1%	0%
Market Share of Total Load												
Day Ahead Market	101.6%	102.1%	100.8%	99.6%	104.1%	103.9%	105.5%	105.2%	104.9%	107.9%	105.7%	104.9%
Balancing Energy +	-1.6%	-2.1%	-0.8%	0.4%	-4.1%	-3.9%	-5.5%	-5.2%	-4.9%	-7.9%	-5.7%	-4.9%
Total MWh	15,784,780	14,111,175	14,517,397	12,156,045	12,473,991	14,161,516	15,673,837	14,772,502	13,638,224	12,684,816	13,194,882	14,286,808
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

+ 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 2015 Energy Statistics

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

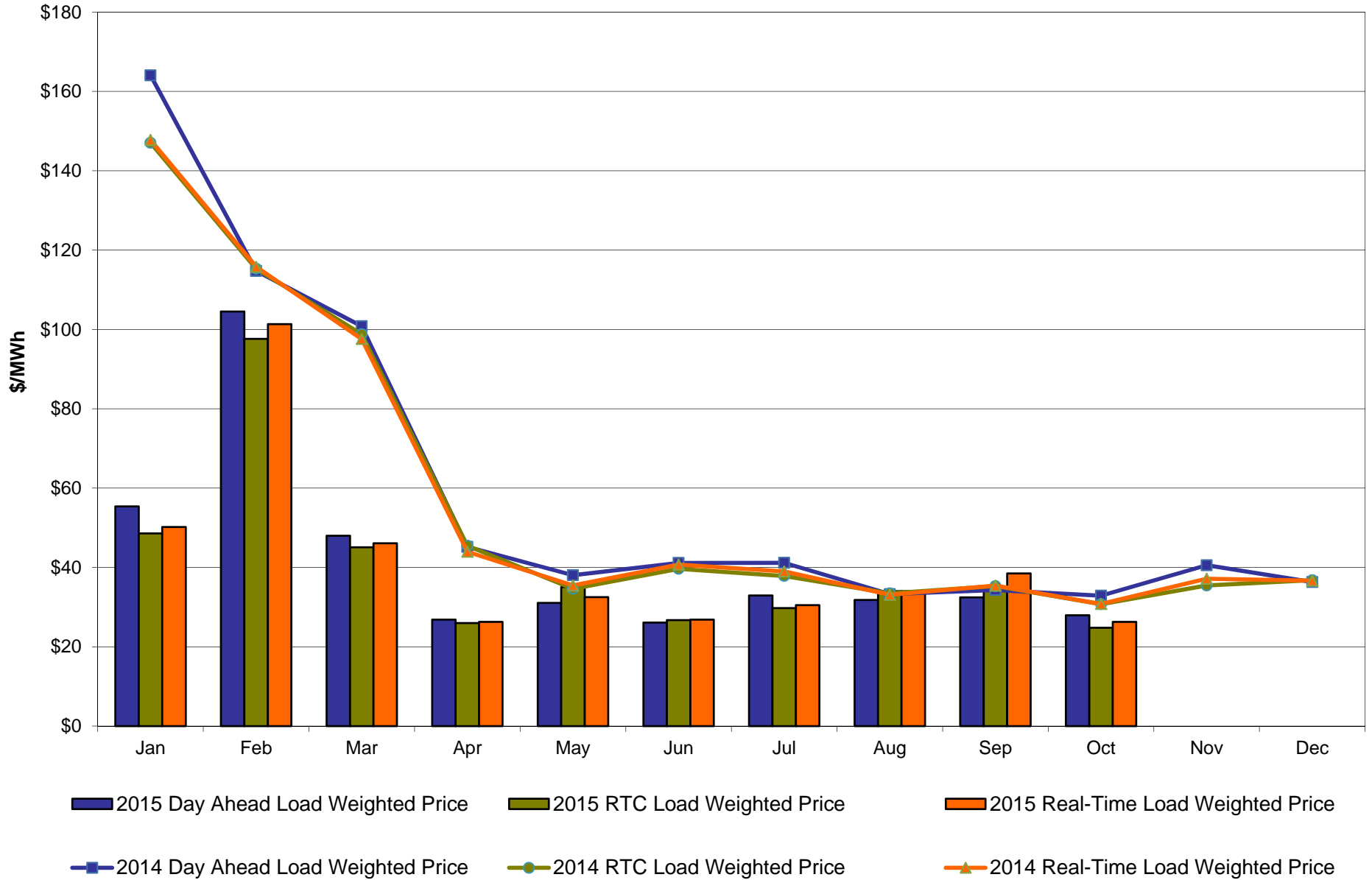
NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<u>DAY AHEAD LBMP</u>												
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
<u>RTC LBMP</u>												
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.

NYISO Monthly Average Internal LBMPs 2014- 2015

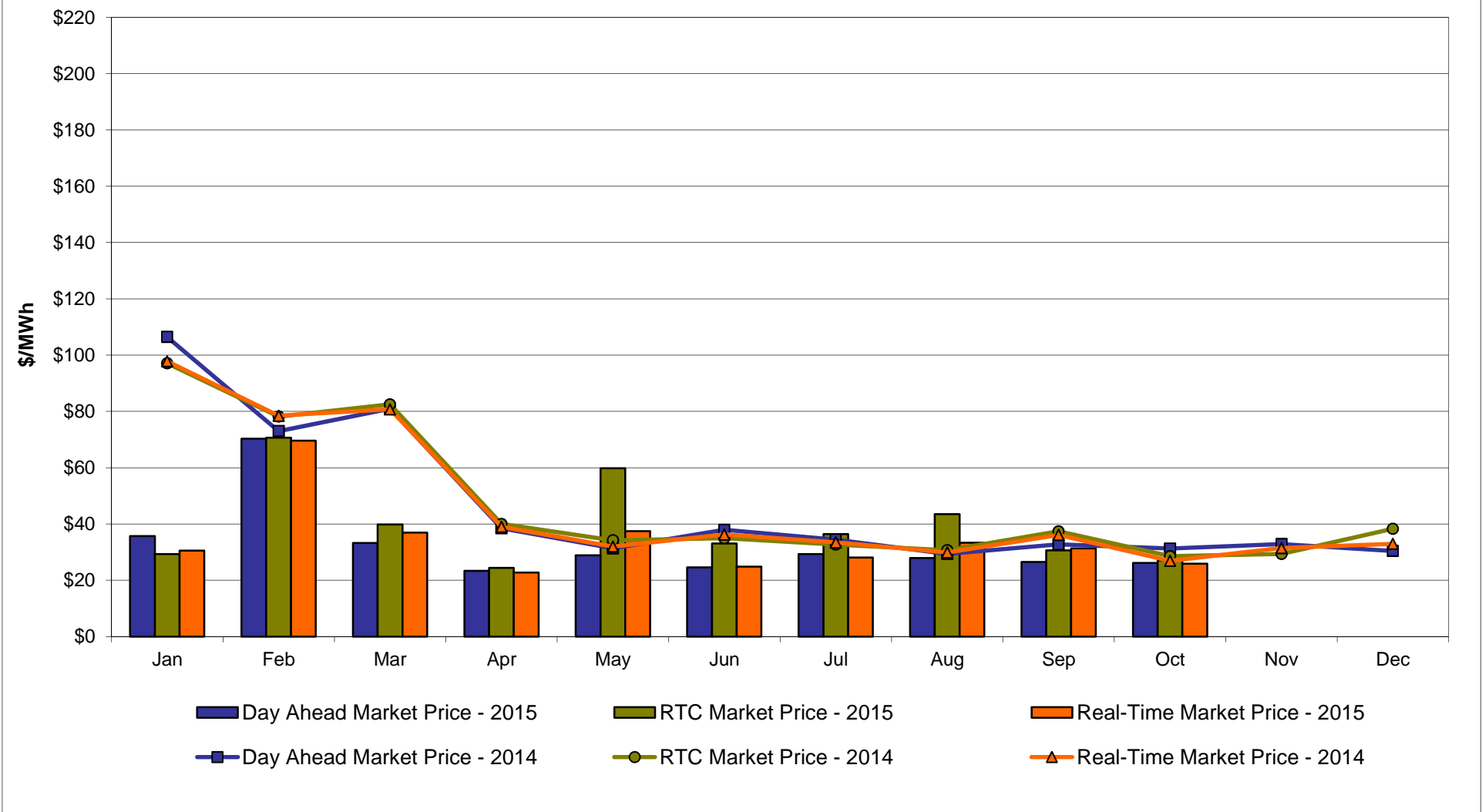


October 2015 Zonal LBMP Statistics for NYISO (\$/MWh)

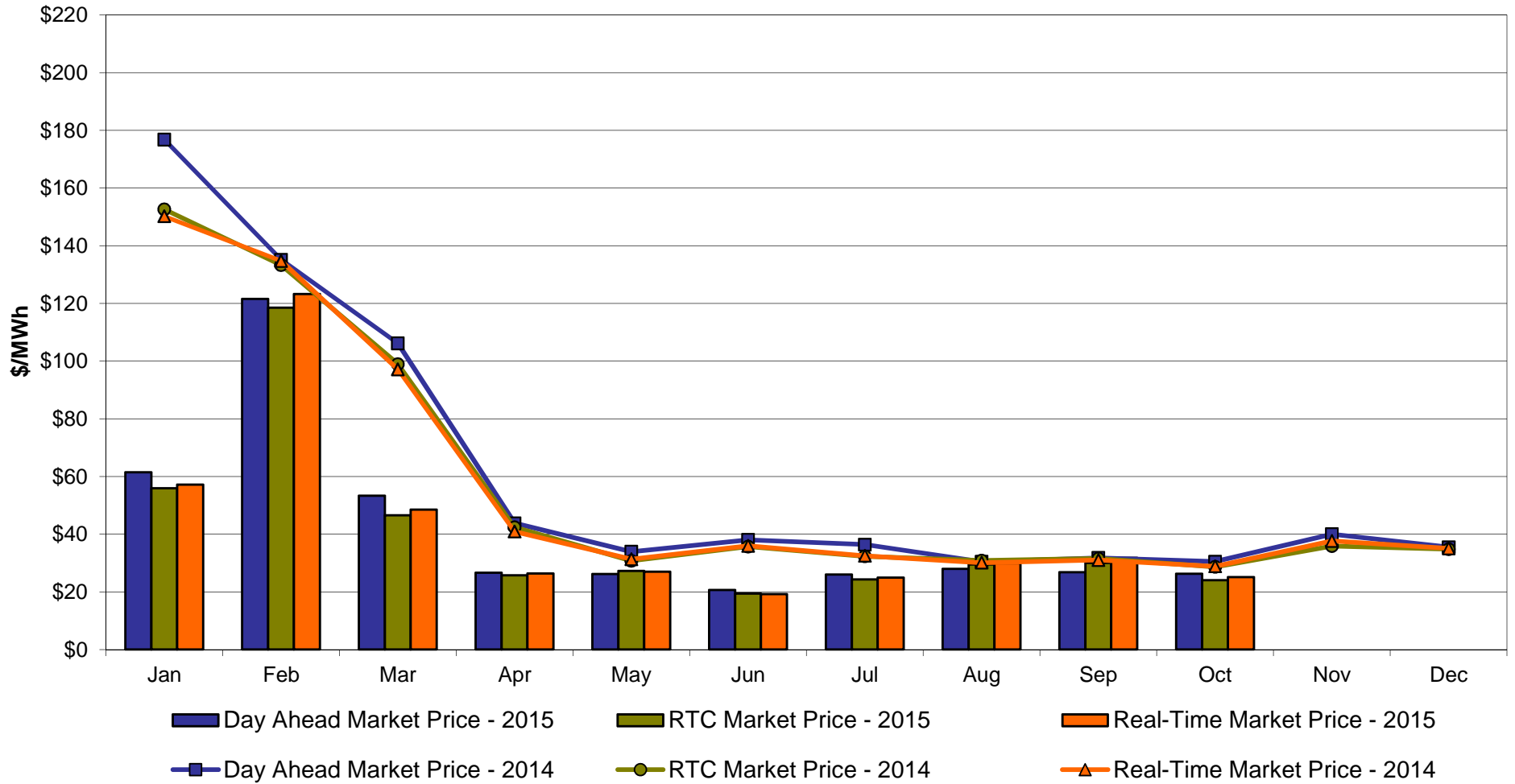
	<u>WEST</u> <u>Zone A</u>	<u>GENESEE</u> <u>Zone B</u>	<u>NORTH</u> <u>Zone D</u>	<u>CENTRAL</u> <u>Zone C</u>	<u>MOHAWK</u> <u>VALLEY</u> <u>Zone E</u>	<u>CAPITAL</u> <u>Zone F</u>	<u>HUDSON</u> <u>VALLEY</u> <u>Zone G</u>	<u>MILLWOOD</u> <u>Zone H</u>	<u>DUNWOODIE</u> <u>Zone I</u>	<u>NEW YORK</u> <u>CITY</u> <u>Zone J</u>	<u>LONG</u> <u>ISLAND</u> <u>Zone K</u>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	26.18	23.42	13.80	24.02	23.94	26.27	26.89	27.08	27.15	27.68	35.20
Standard Deviation	10.75	6.82	10.19	7.16	6.95	6.53	7.00	7.10	7.12	7.23	11.90
<u>RTC LBMP</u>											
Unweighted Price *	27.16	21.12	12.60	21.50	21.38	24.08	23.88	23.89	23.86	24.22	27.61
Standard Deviation	45.94	9.52	19.54	9.83	9.23	8.45	8.55	8.53	8.51	8.58	16.46
<u>REAL TIME LBMP</u>											
Unweighted Price *	25.89	22.16	14.15	22.45	22.49	25.15	24.99	25.00	24.96	25.34	34.14
Standard Deviation	28.02	11.47	17.41	11.52	11.02	10.60	10.68	10.66	10.63	10.63	32.48
	<u>ONTARIO</u> <u>IESO</u> <u>Zone O</u>	<u>HYDRO</u> <u>QUEBEC</u> <u>(Wheel)</u> <u>Zone M</u>	<u>HYDRO</u> <u>QUEBEC</u> <u>(Import/Export)</u> <u>Zone M</u>	<u>PJM</u> <u>Zone P</u>	<u>NEW</u> <u>ENGLAND</u> <u>Zone N</u>	<u>CROSS</u> <u>SOUND</u> <u>CABLE</u> <u>Controllable</u> <u>Line</u>	<u>NORTHPORT-</u> <u>NORWALK</u> <u>Controllable</u> <u>Line</u>	<u>NEPTUNE</u> <u>Controllable</u> <u>Line</u>	<u>LINDEN VFT</u> <u>Controllable</u> <u>Line</u>	<u>HUDSON</u> <u>Controllable</u> <u>Line</u>	<u>Dennison</u> <u>Controllable</u> <u>Line</u>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	22.40	16.65	16.65	25.93	34.84	35.45	34.65	33.75	26.26	27.27	13.46
Standard Deviation	5.96	9.90	9.90	7.32	12.93	12.02	11.45	11.23	6.75	7.14	10.18
<u>RTC LBMP</u>											
Unweighted Price *	19.12	14.20	14.20	23.27	23.93	28.97	26.61	26.28	23.69	23.90	12.70
Standard Deviation	11.92	19.68	19.68	10.53	8.44	25.89	15.28	15.02	8.57	8.54	19.81
<u>REAL TIME LBMP</u>											
Unweighted Price *	21.06	15.22	15.22	24.02	36.37	36.10	34.12	32.24	25.04	25.00	13.57
Standard Deviation	9.99	17.42	17.42	11.75	39.18	38.66	32.77	30.59	10.72	10.68	17.29

* Straight LBMP averages

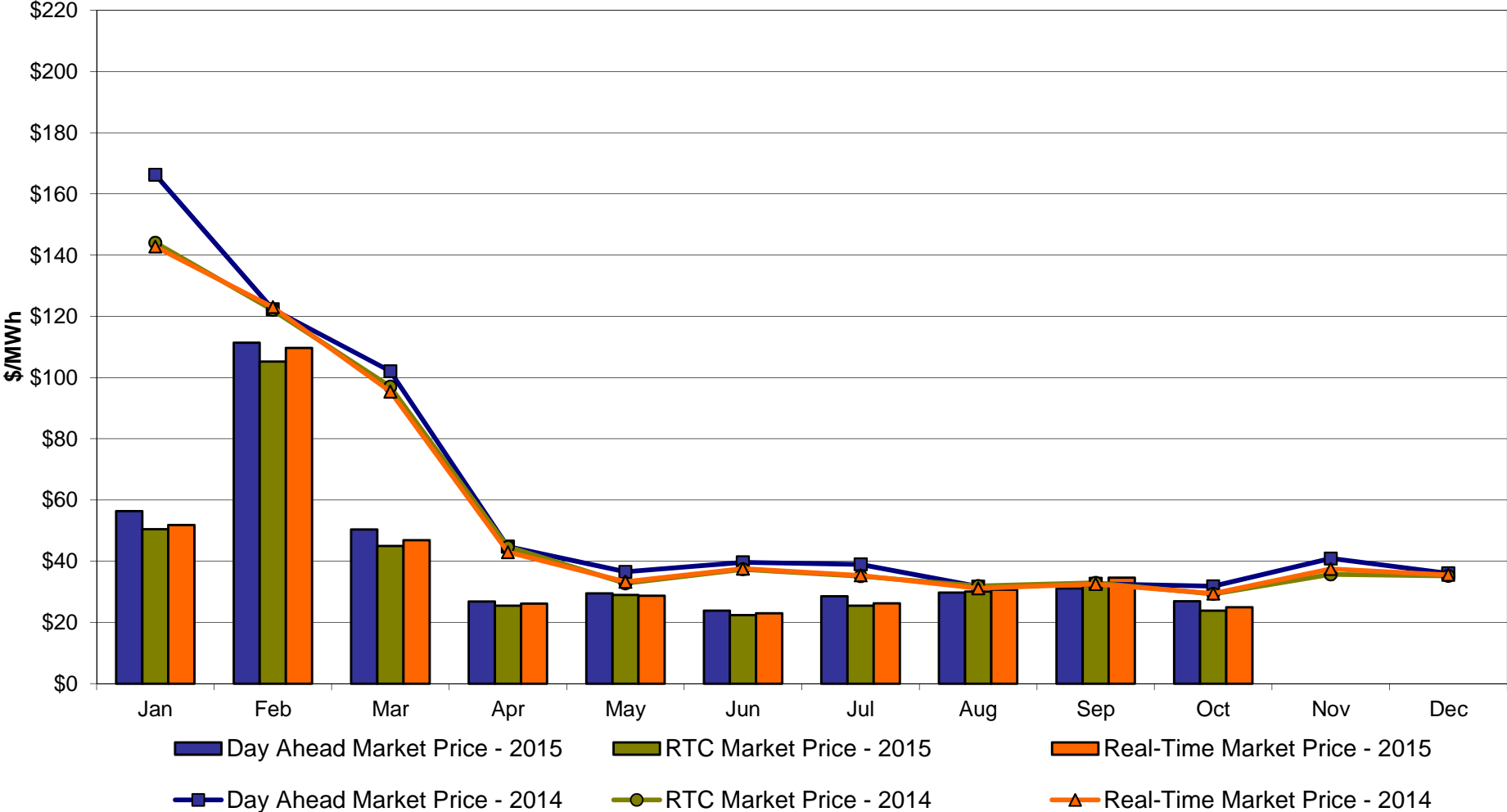
**West Zone A
Monthly Average LBMP Prices 2014 - 2015**



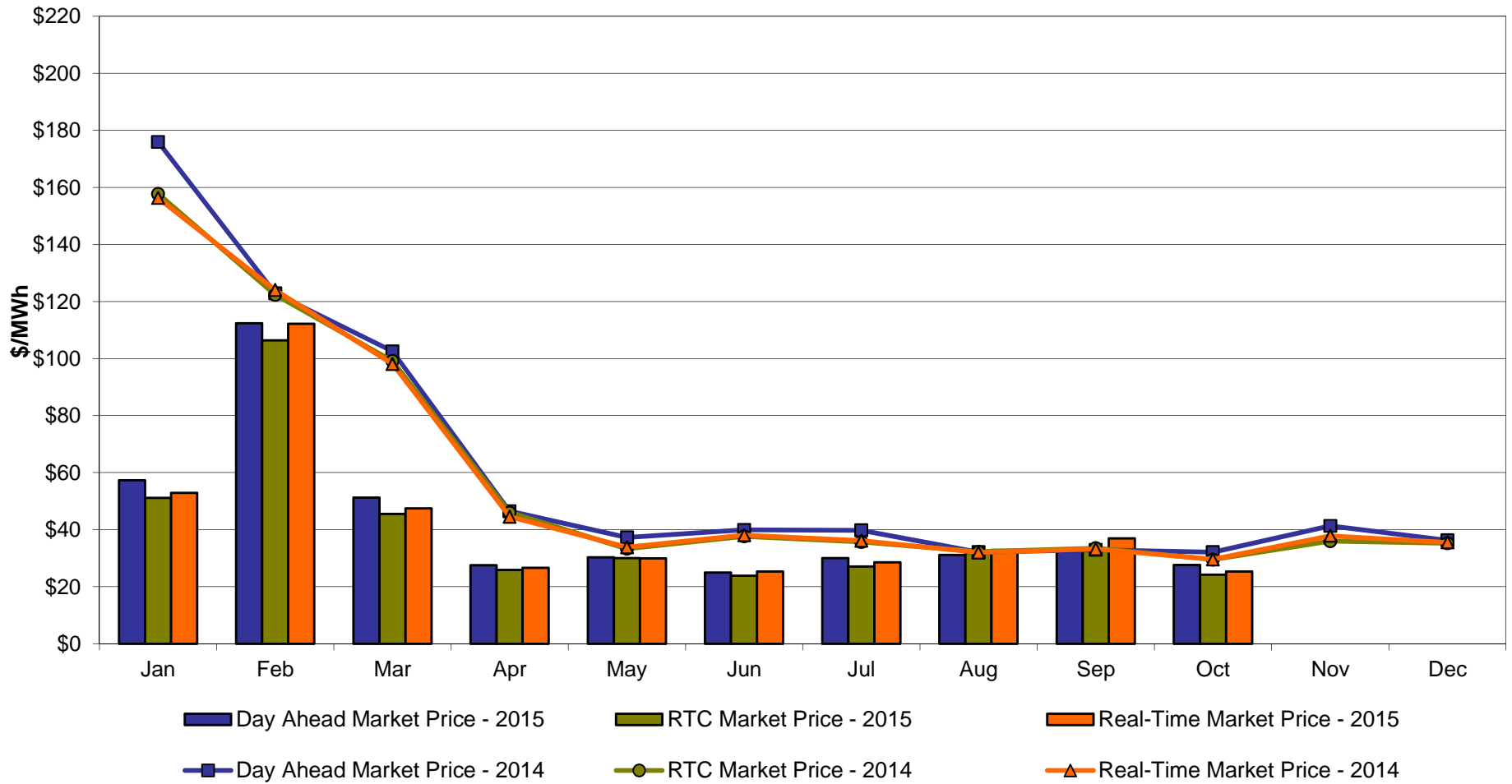
Capital Zone F Monthly Average LBMP Prices 2014 - 2015



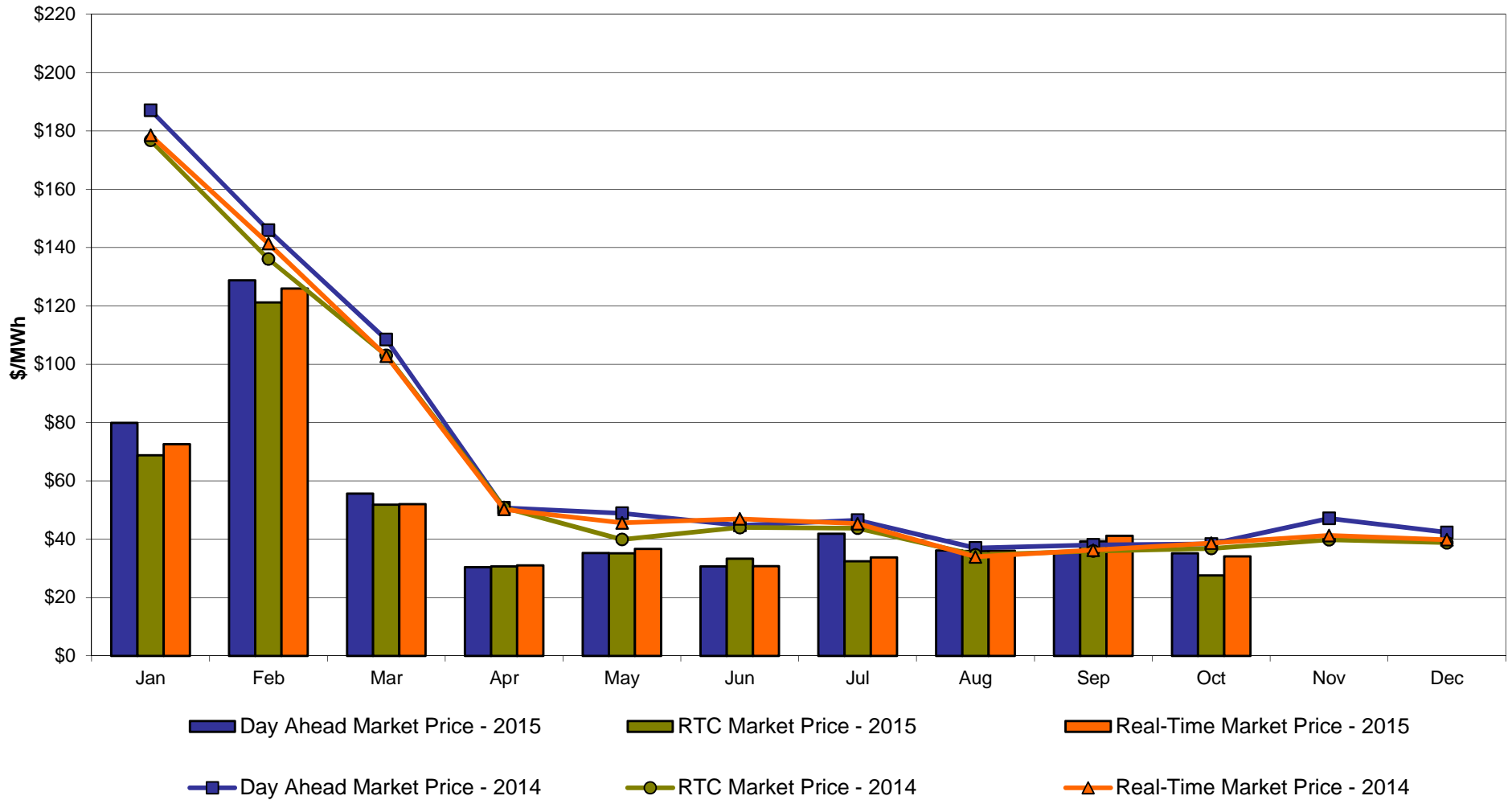
Hudson Valley Zone G Monthly Average LBMP Prices 2014 - 2015



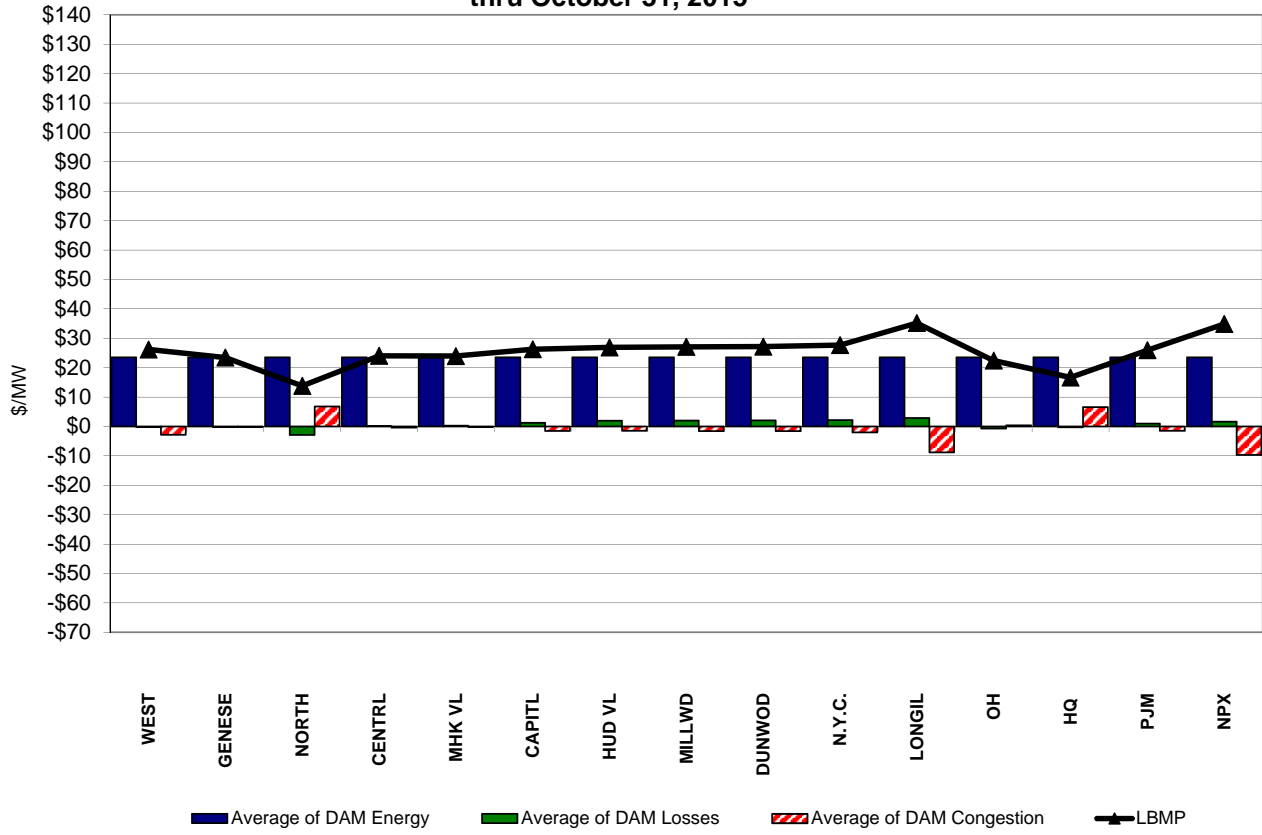
NYC Zone J Monthly Average LBMP Prices 2014 - 2015



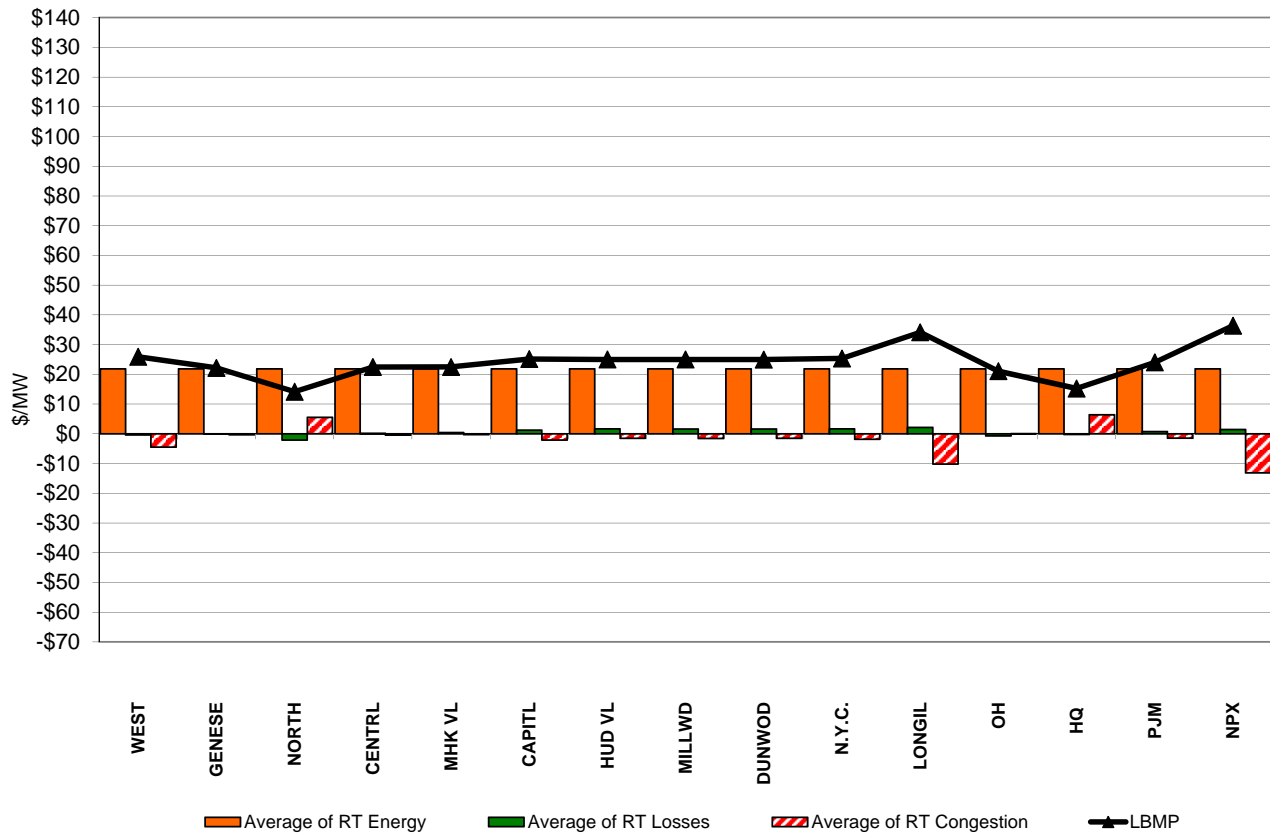
Long Island Zone K Monthly Average LBMP Prices 2014 - 2015



DAM Zonal Unweighted Monthly Average LBMP Components thru October 31, 2015

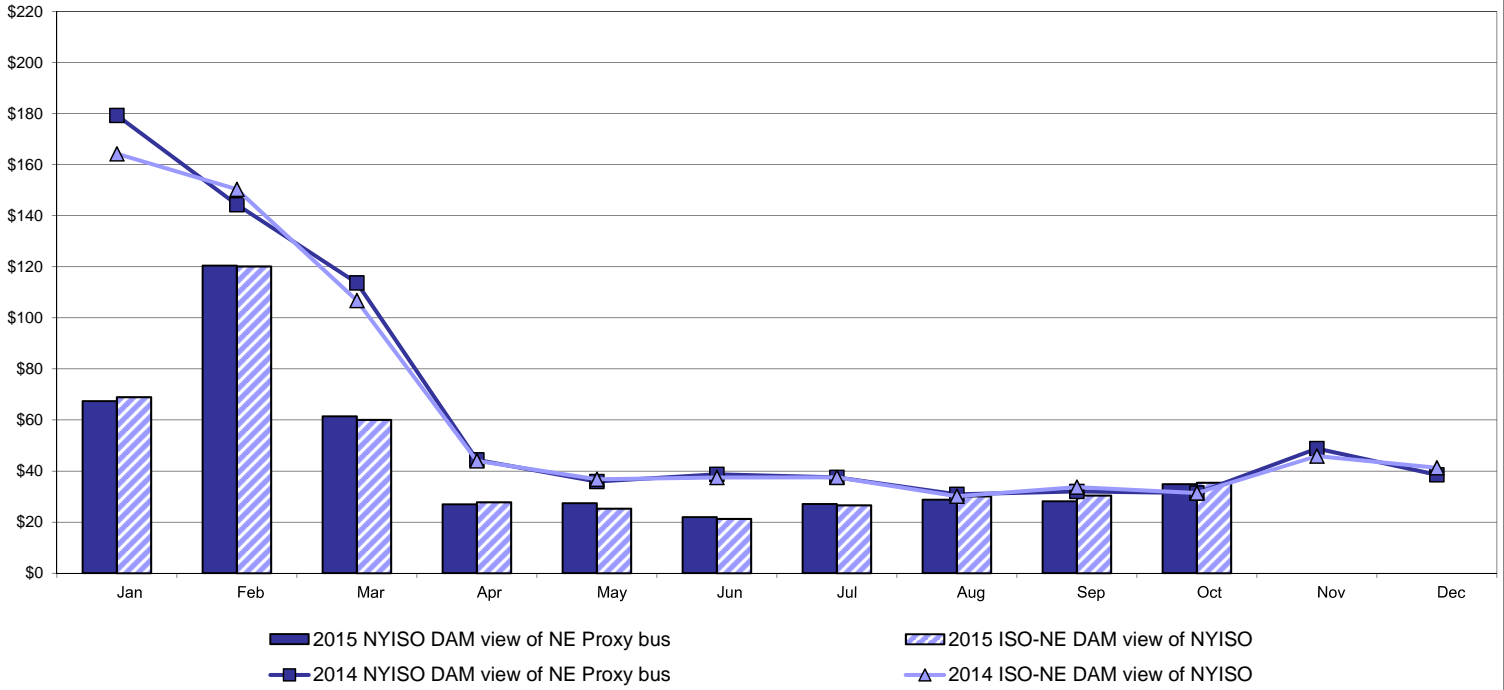


RT Zonal Unweighted Monthly Average LBMP Components thru October 31, 2015

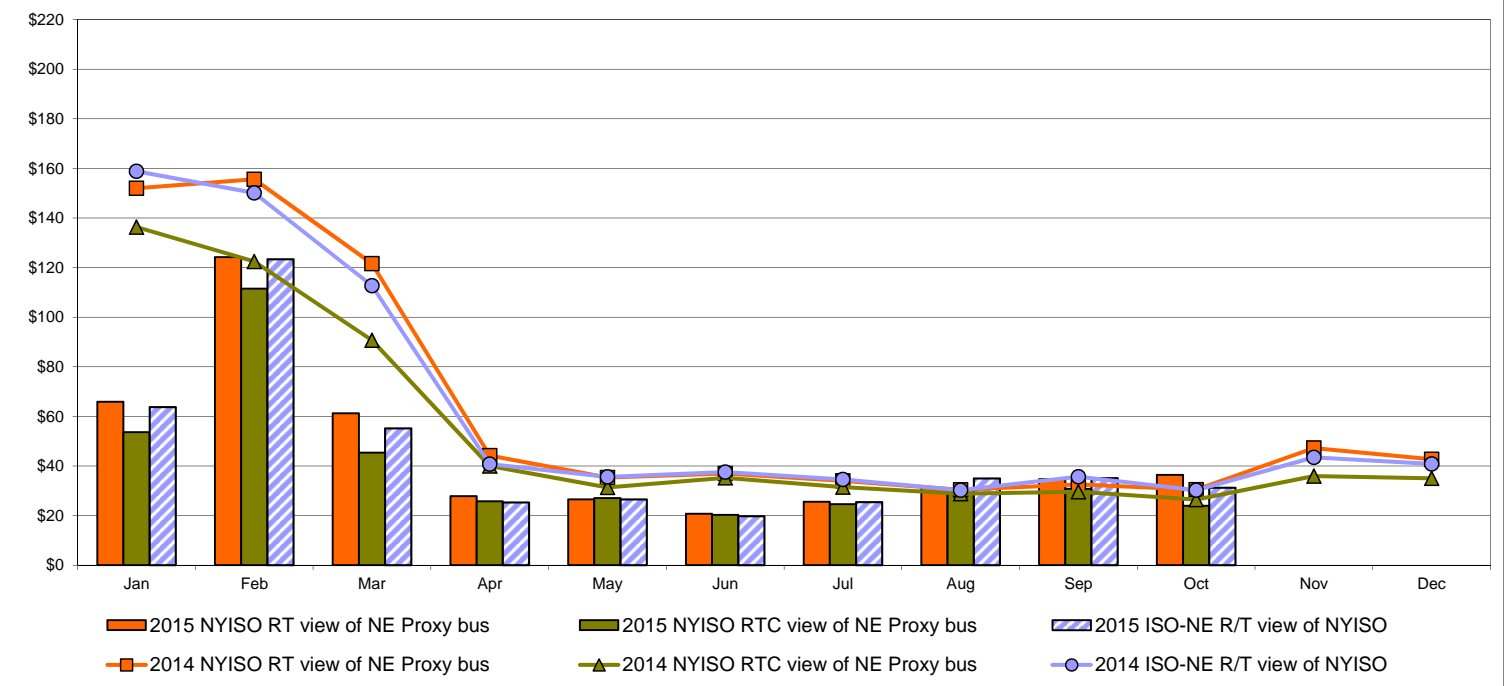


External Comparison ISO-New England

Day Ahead Market External Zone Comparison: ISO-NE (\$/MWh)

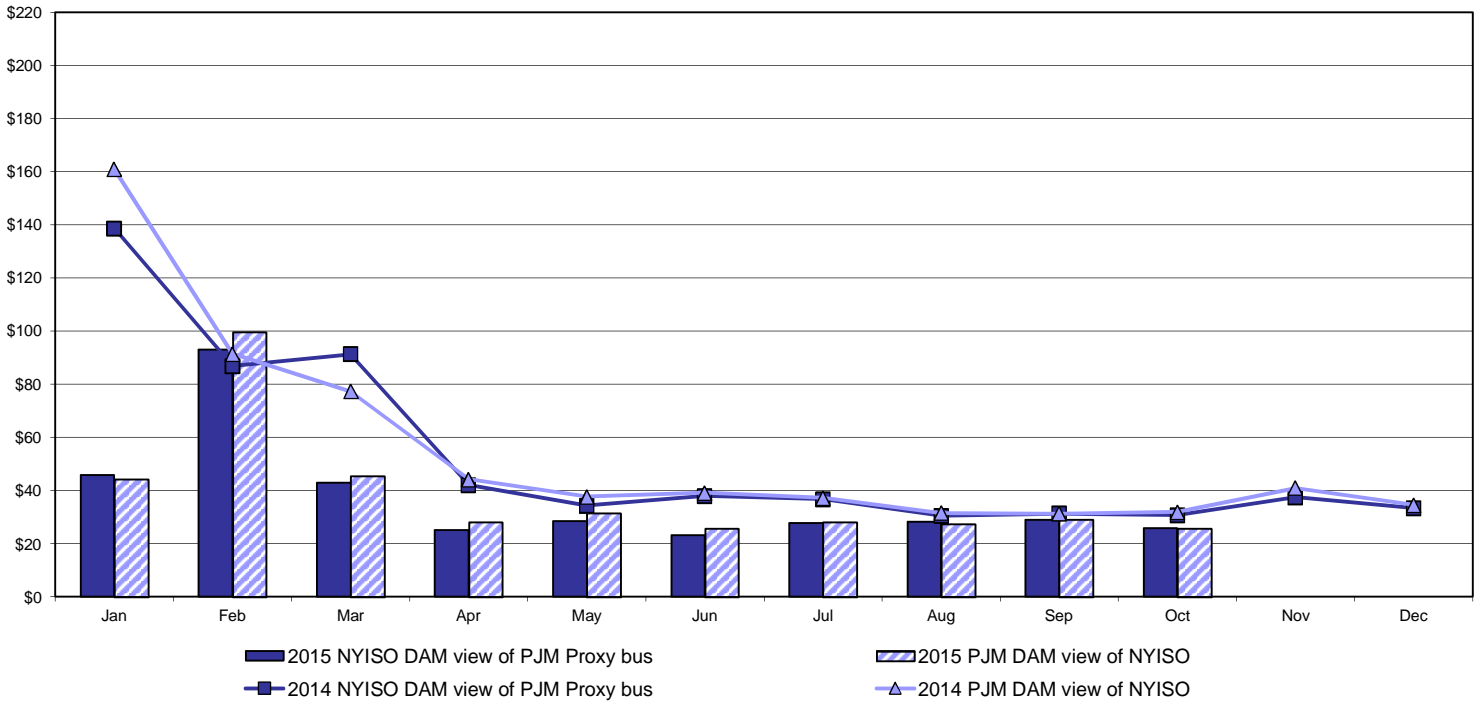


Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

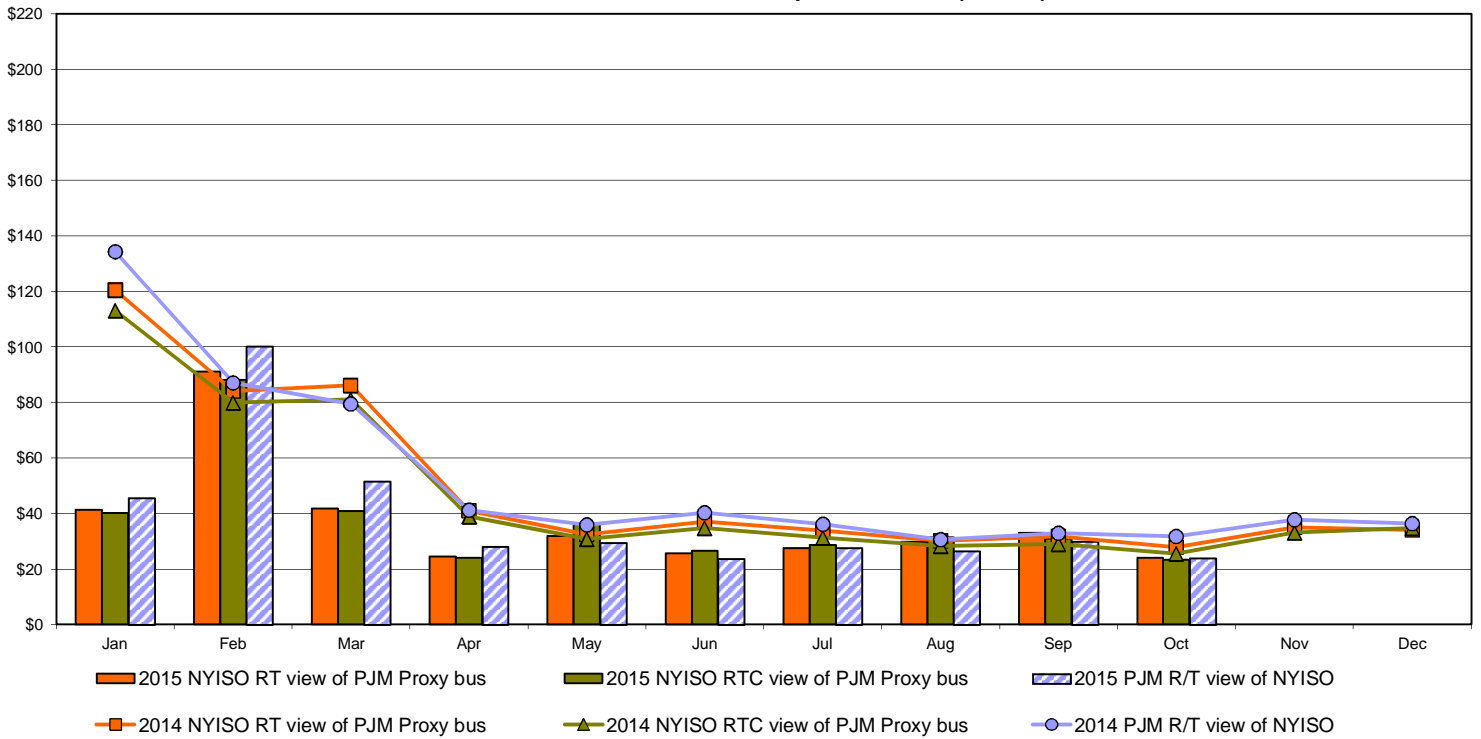


External Comparison PJM

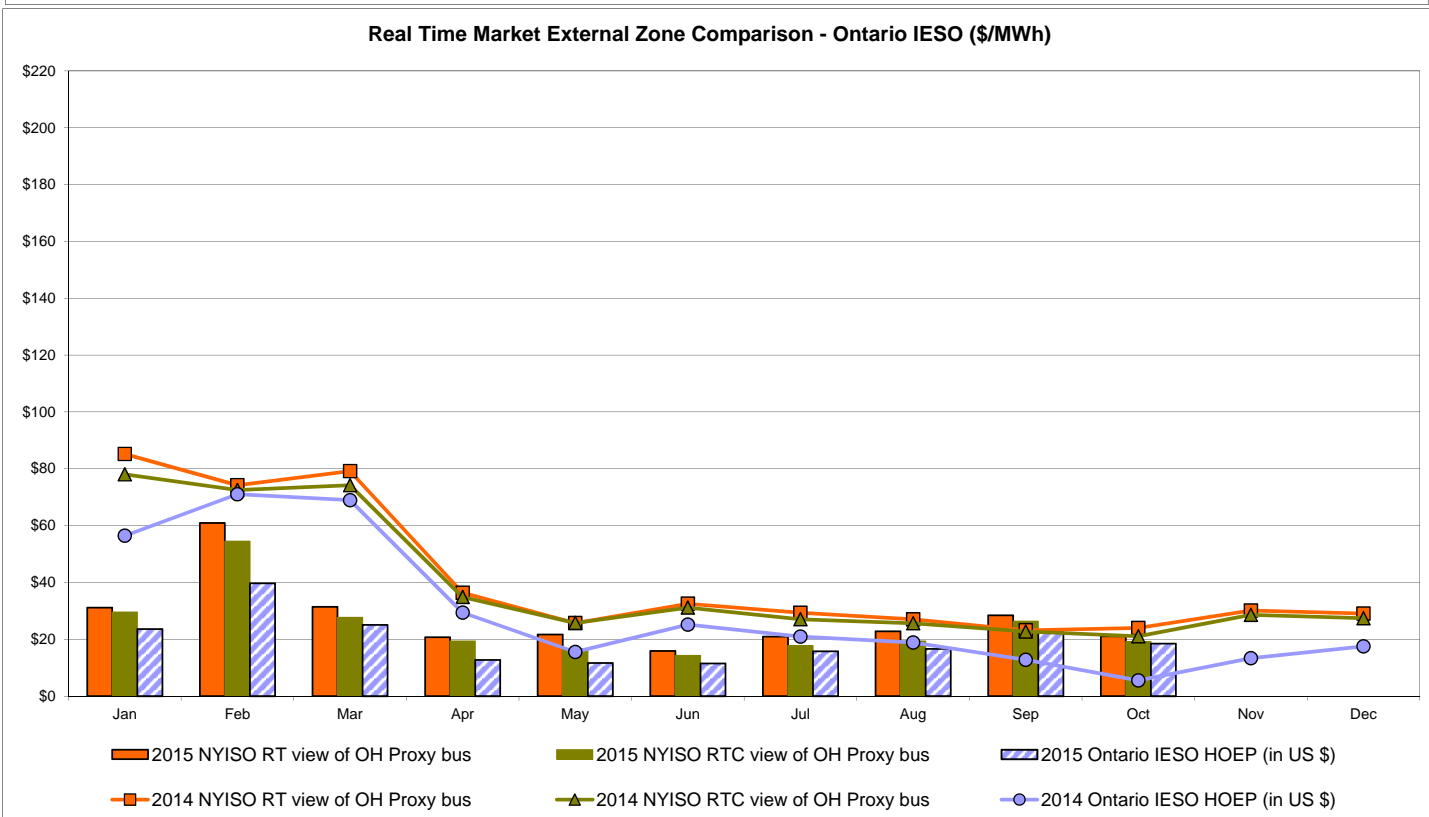
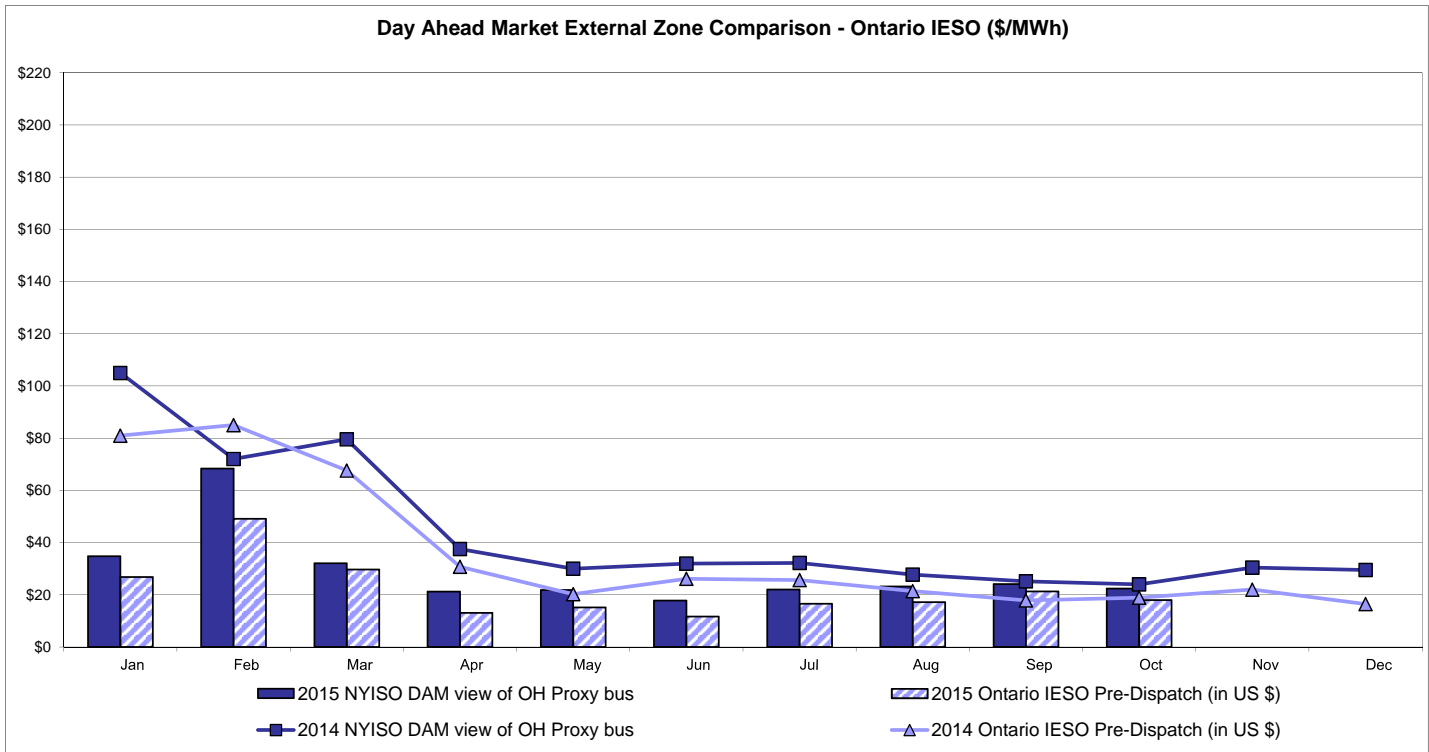
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



Real Time Market External Zone Comparison - PJM (\$/MWh)

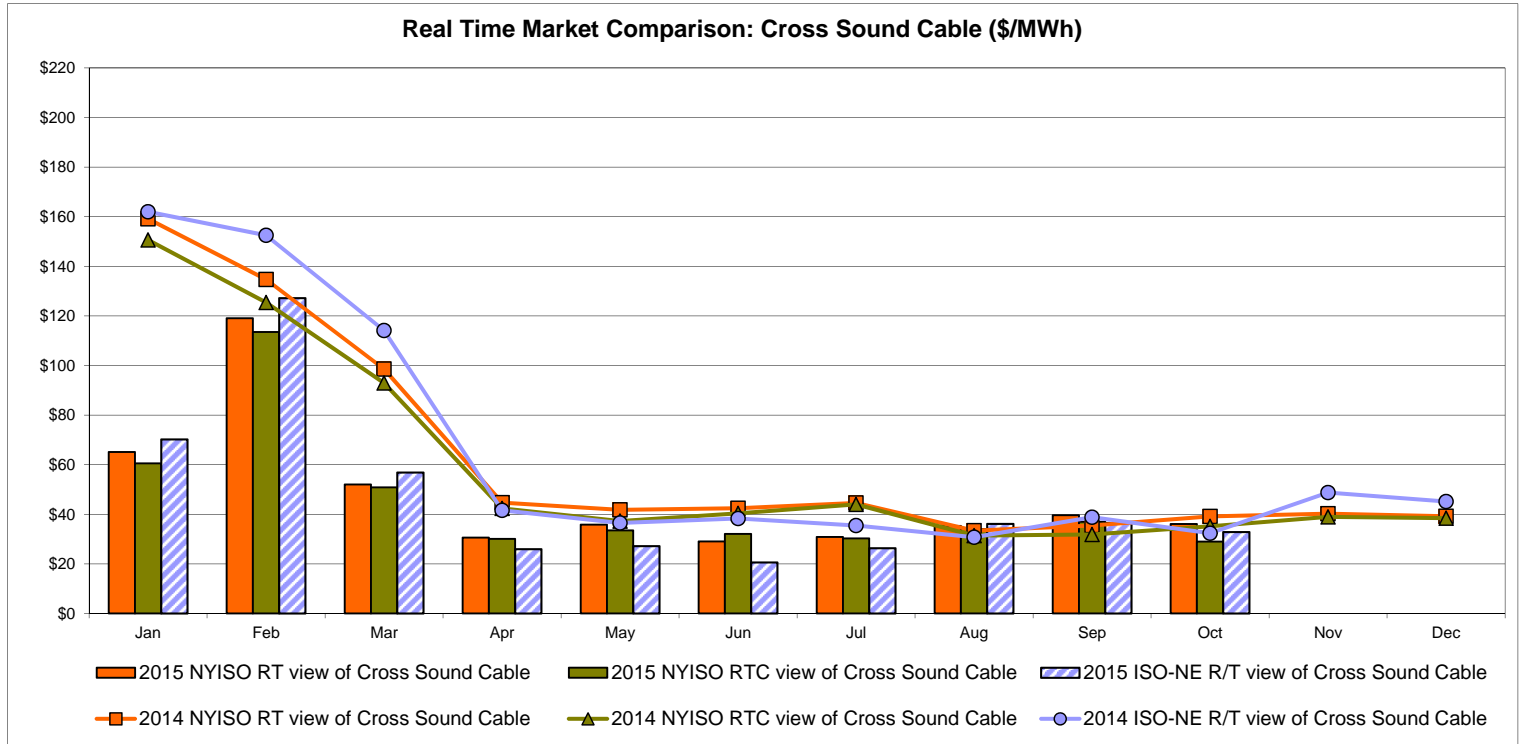
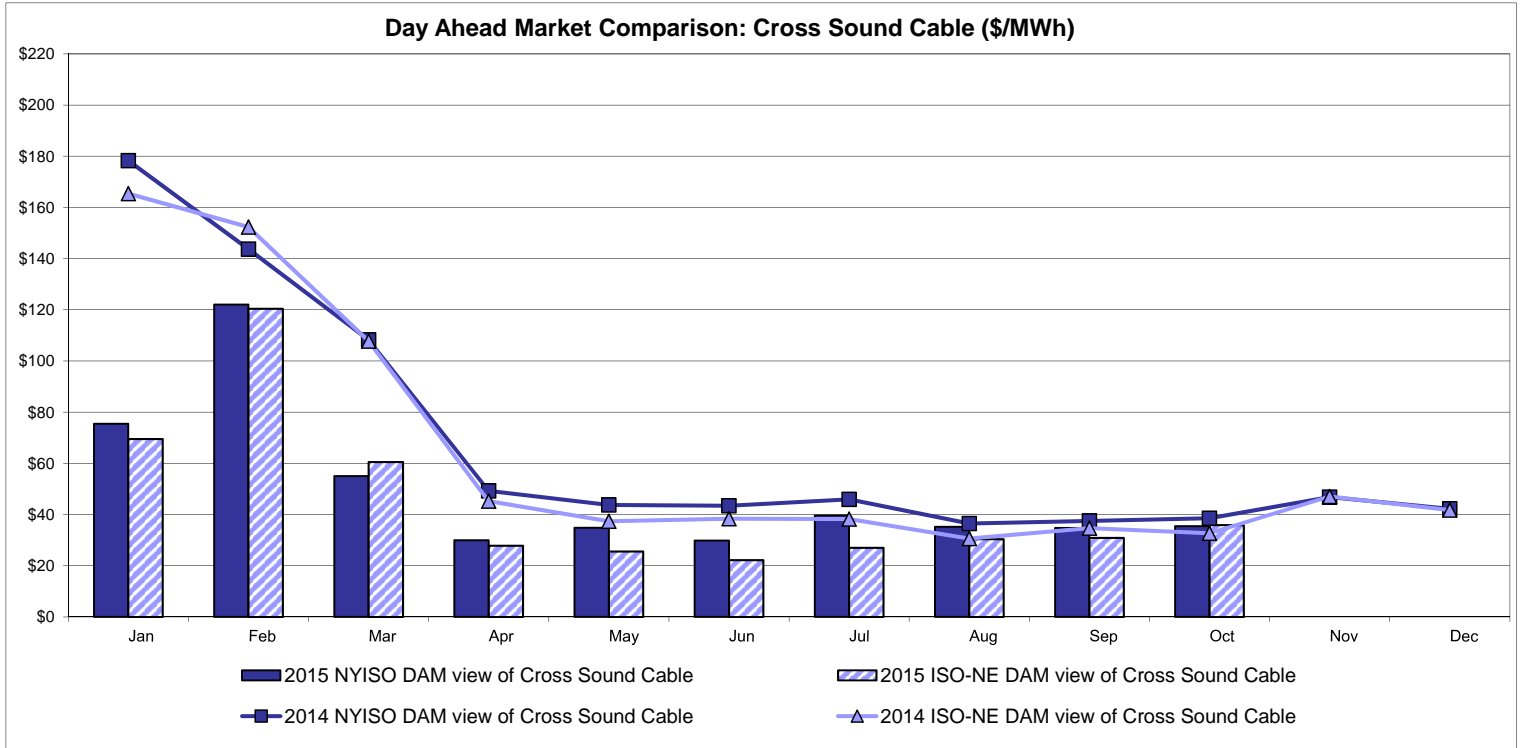


External Comparison Ontario IESO



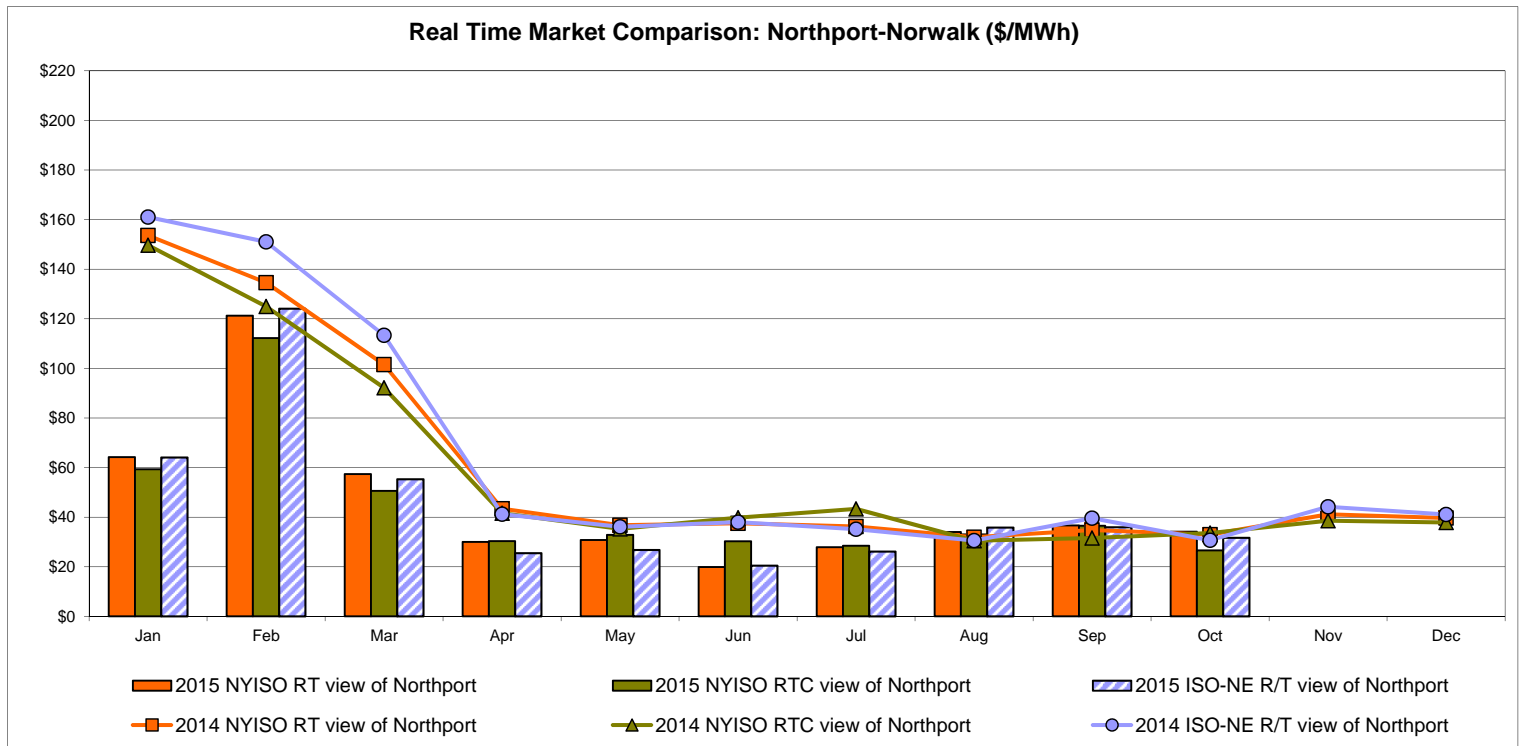
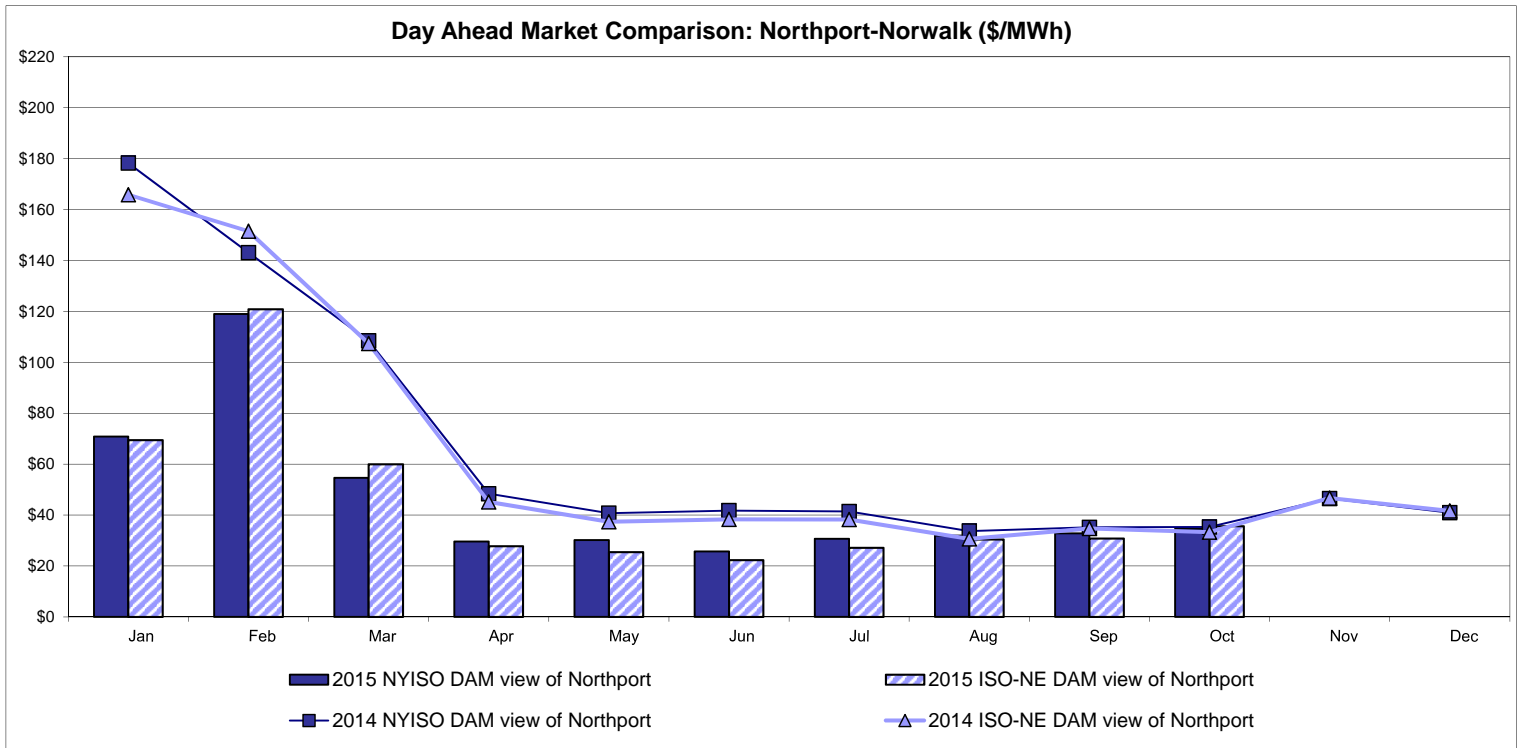
Notes: Exchange factor used for October 2015 was 0.7665 to US
 HOEP: Hourly Ontario Energy Price
 Pre-Dispatch: Projected Energy Price

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.

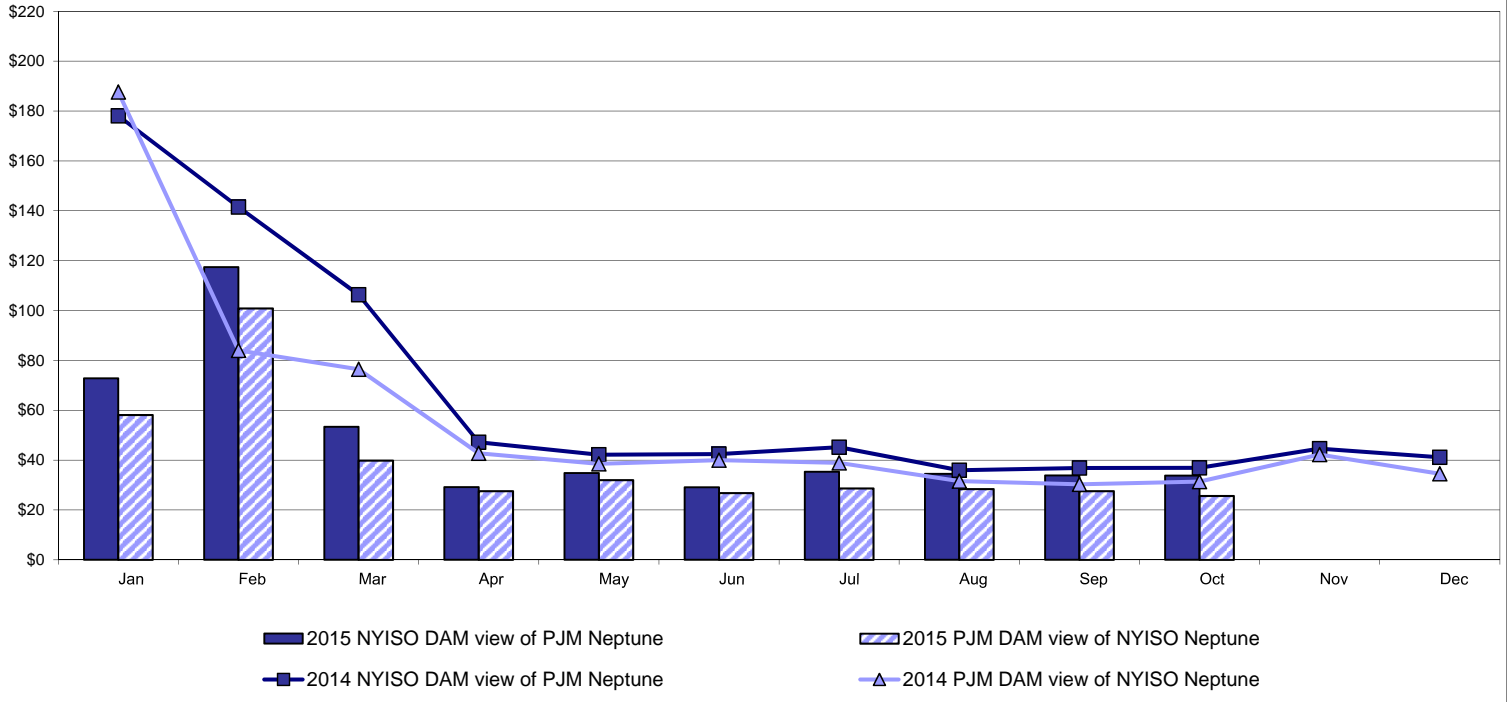
External Controllable Line: Northport - Norwalk (New England)



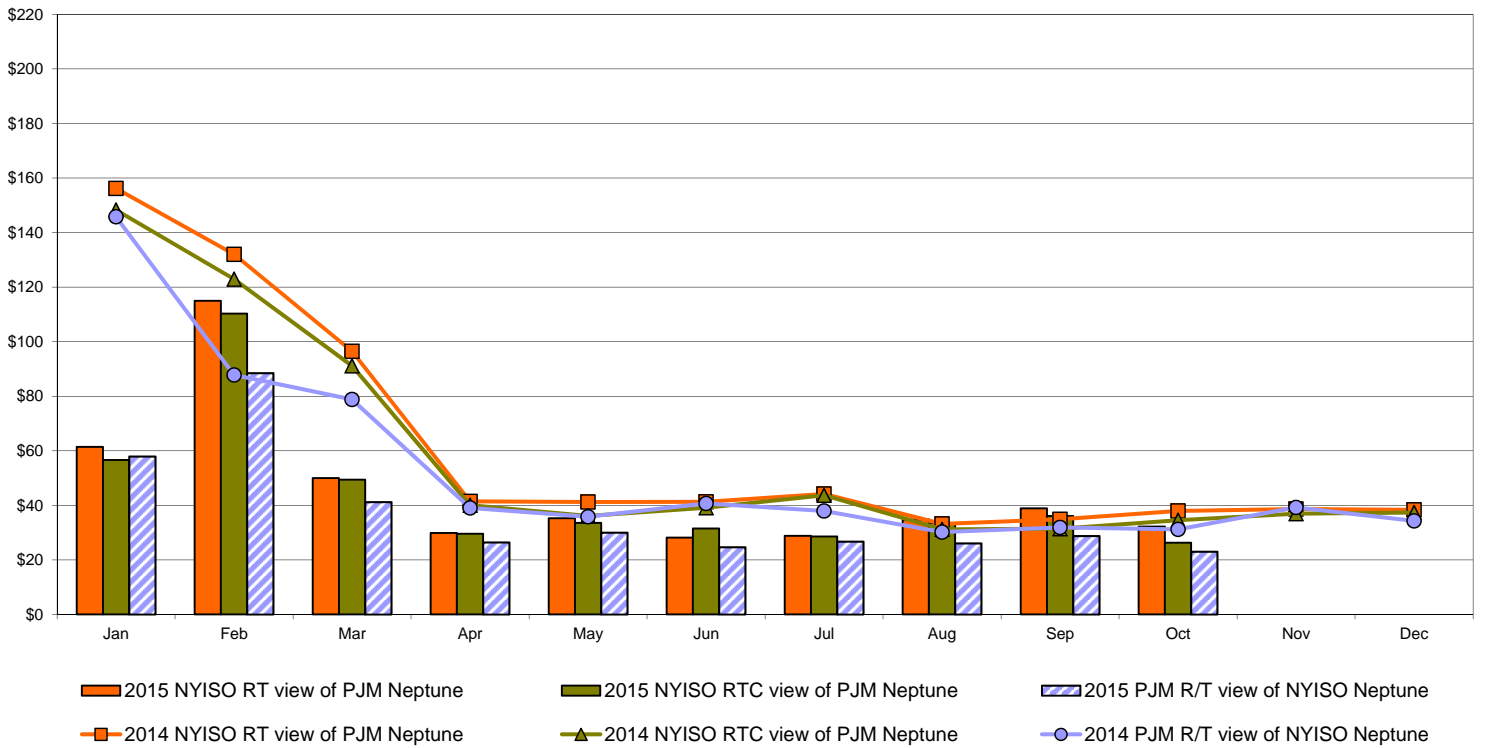
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

Day Ahead Market Comparison: Neptune (\$/MWh)

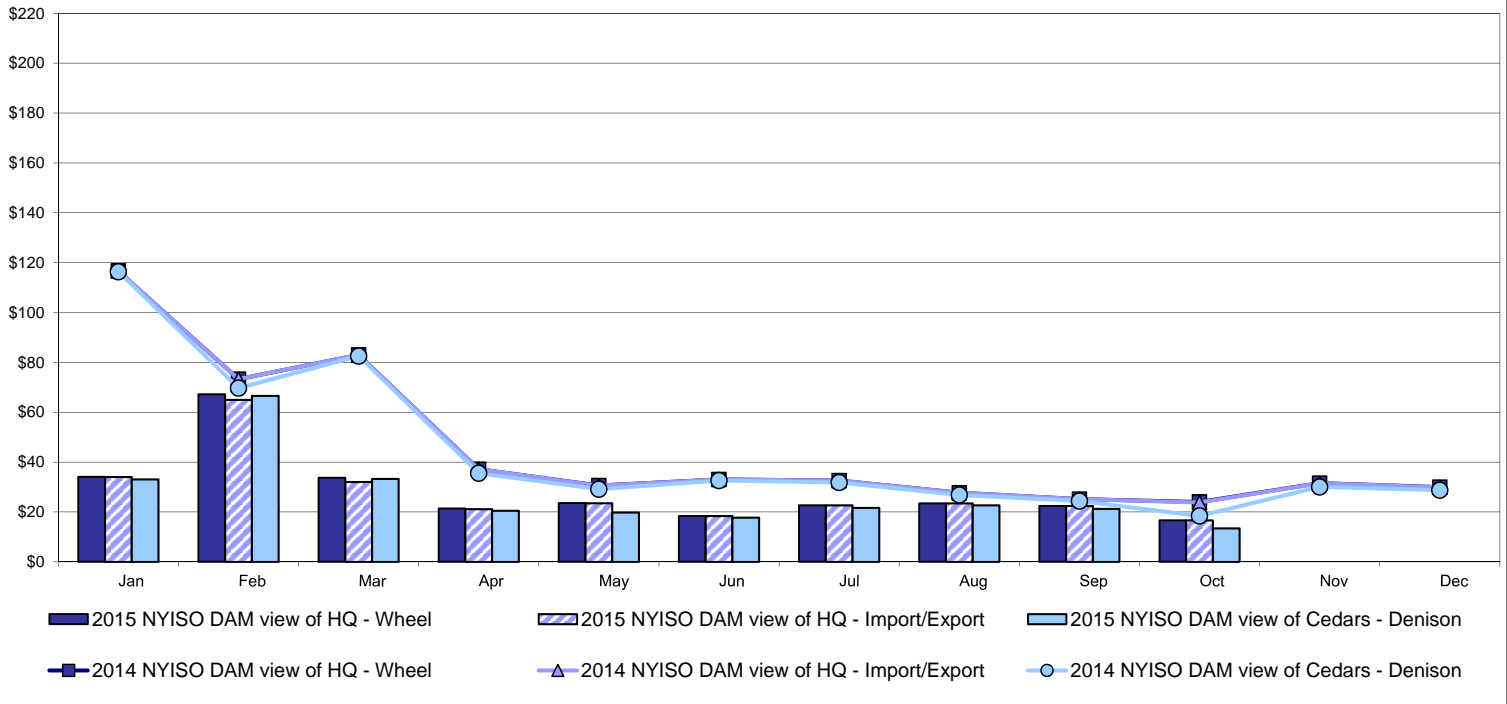


Real Time Market Comparison: Neptune (\$/MWh)

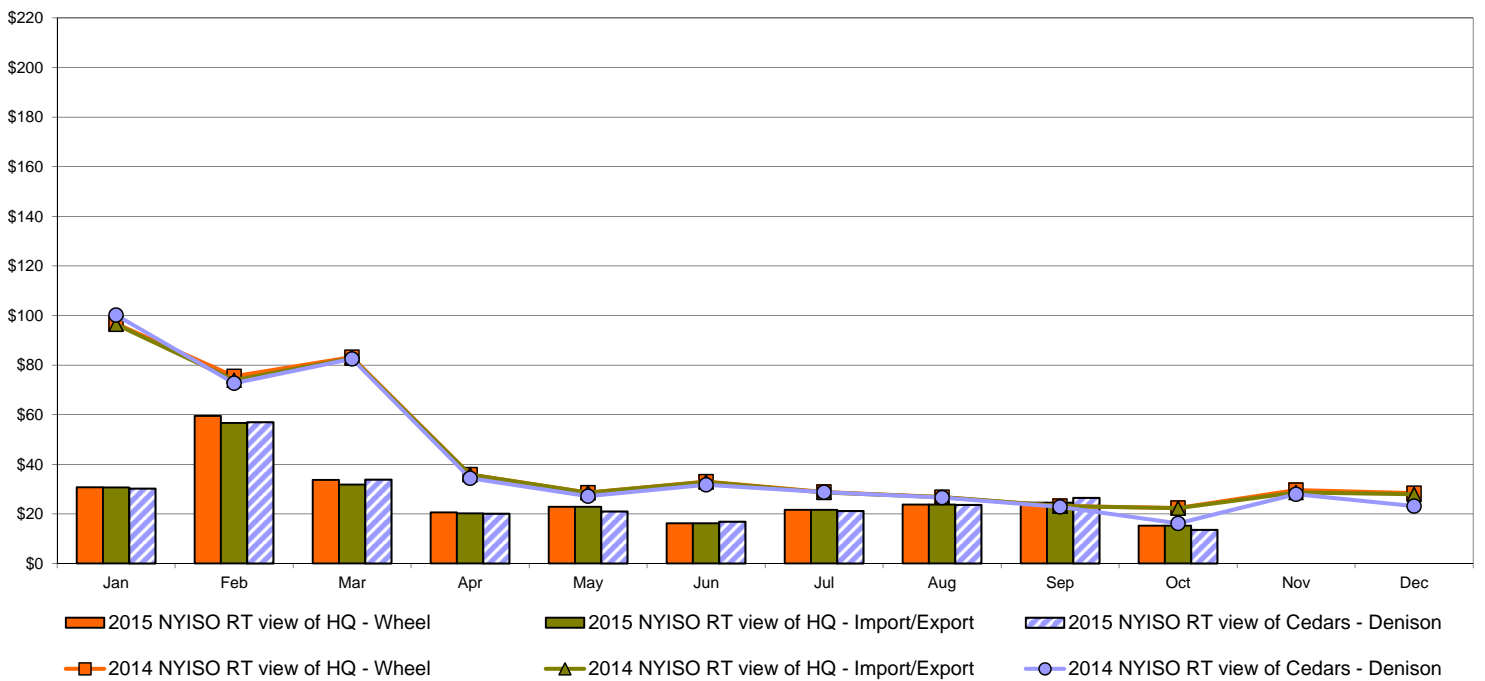


External Comparison Hydro-Quebec

Day Ahead Market External Zone Comparison - HQ (\$/MWh)

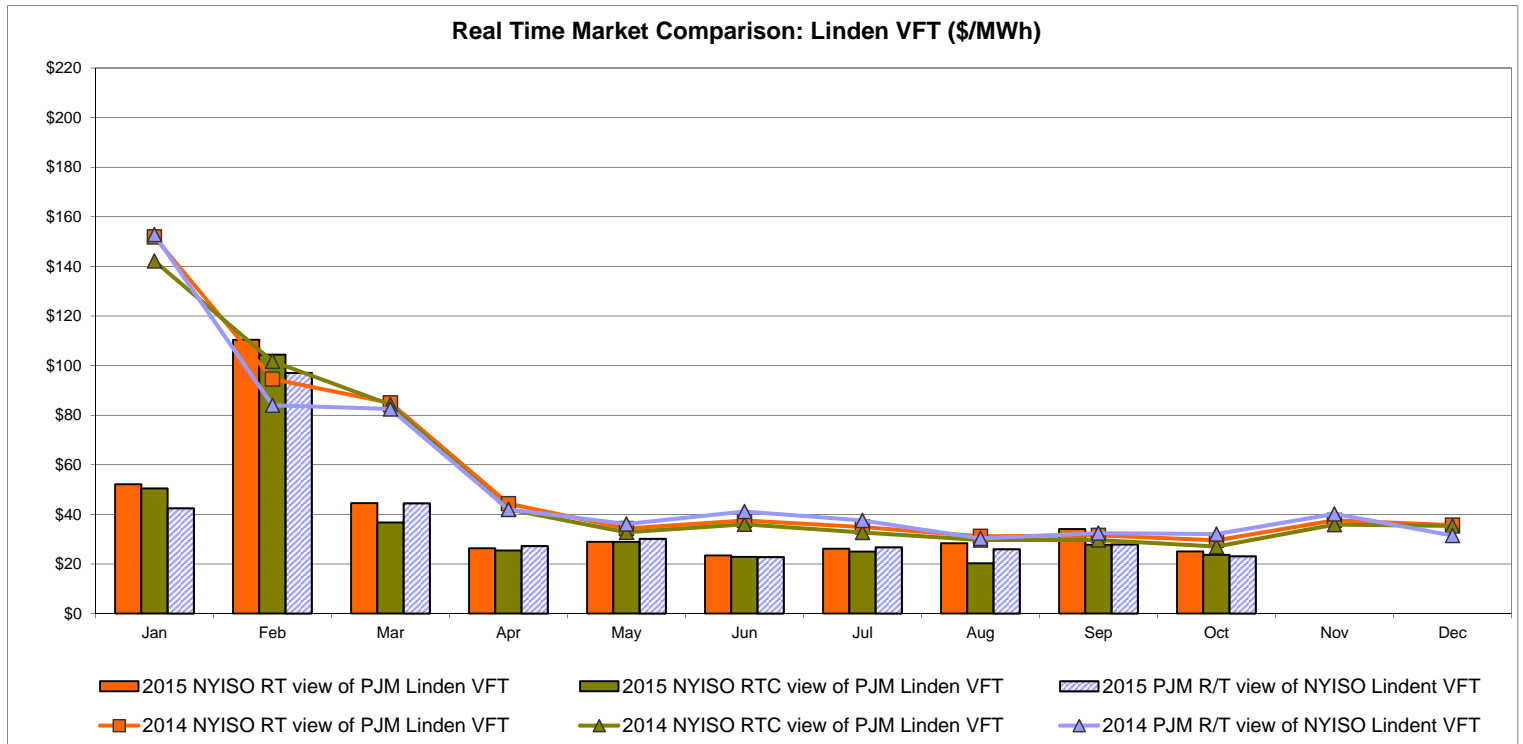
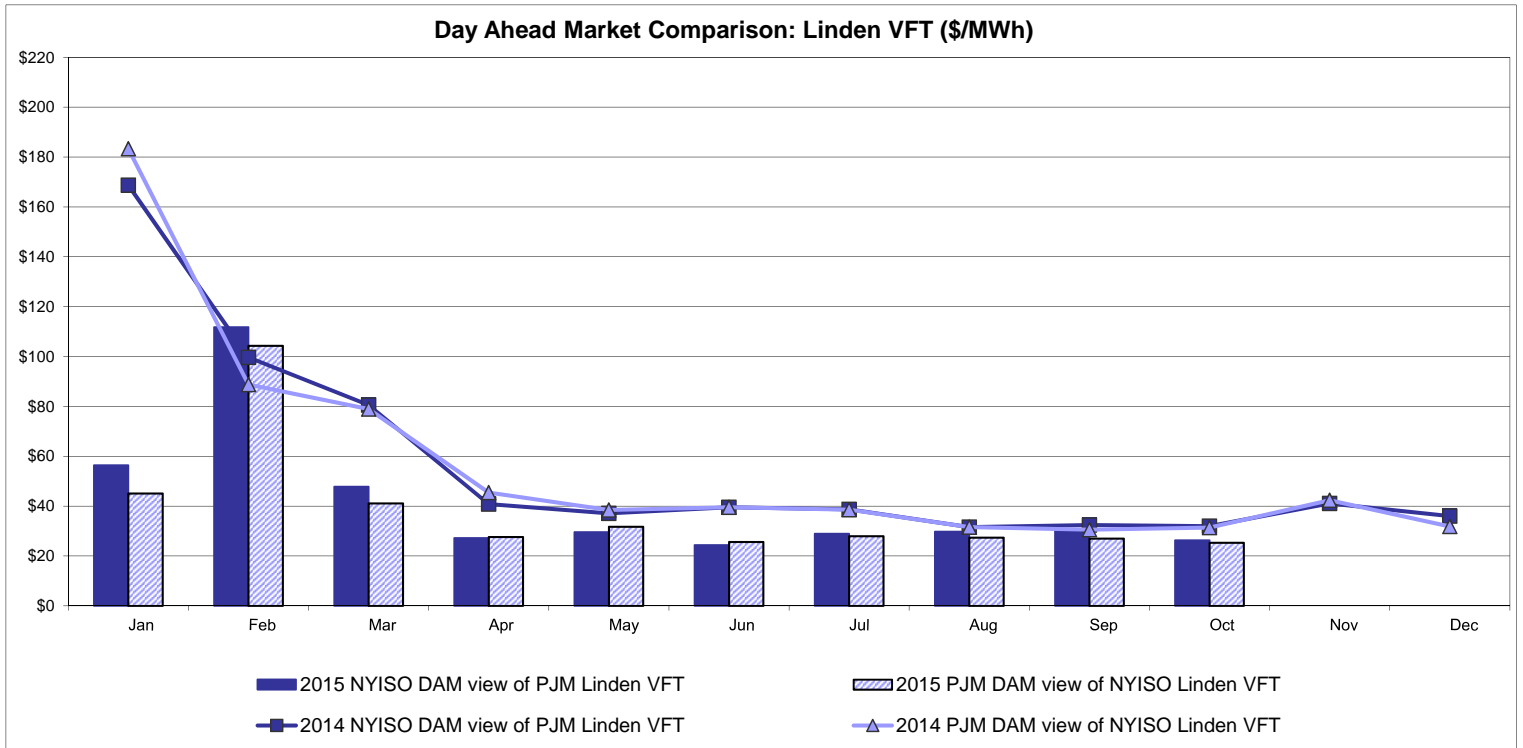


Real Time Market External Zone Comparison - HQ (\$/MWh)

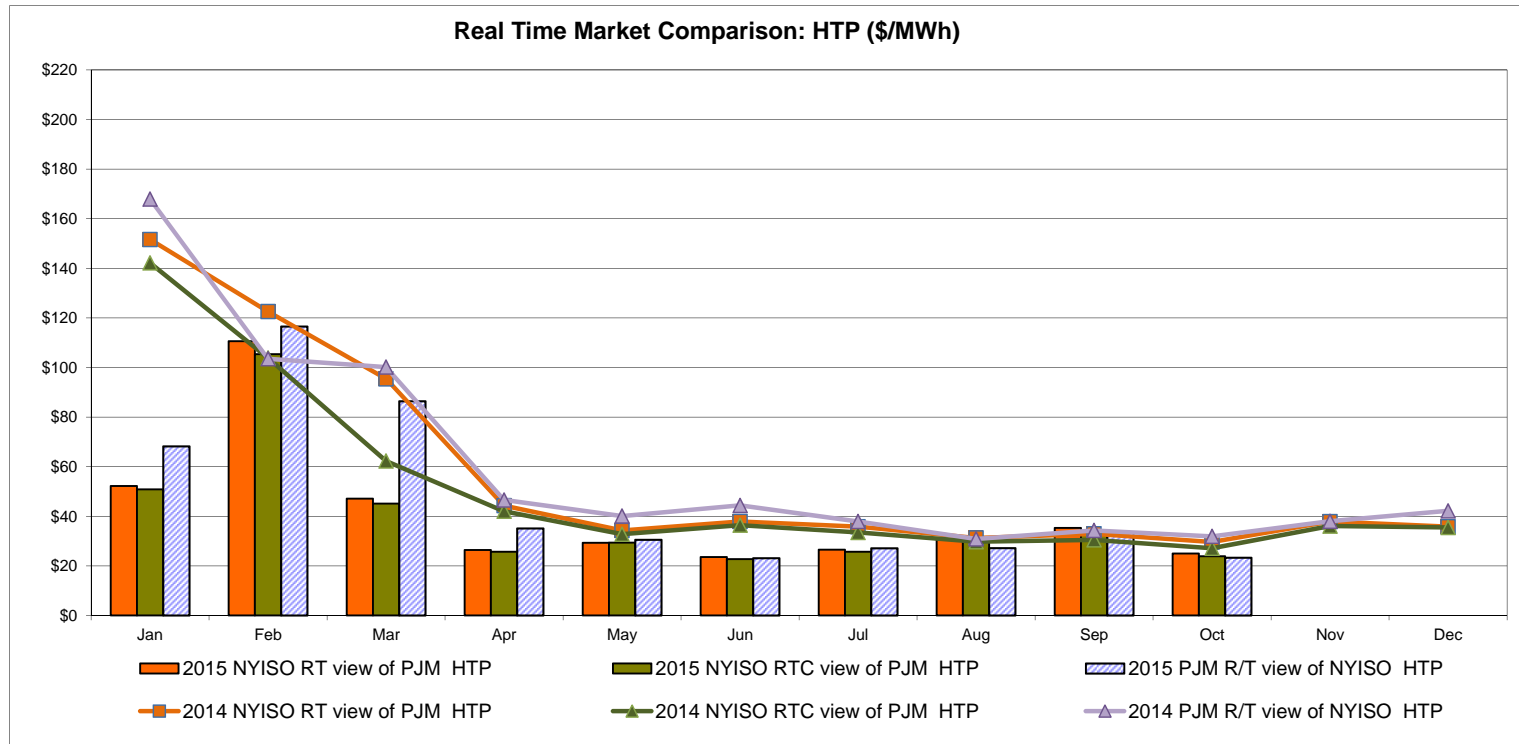
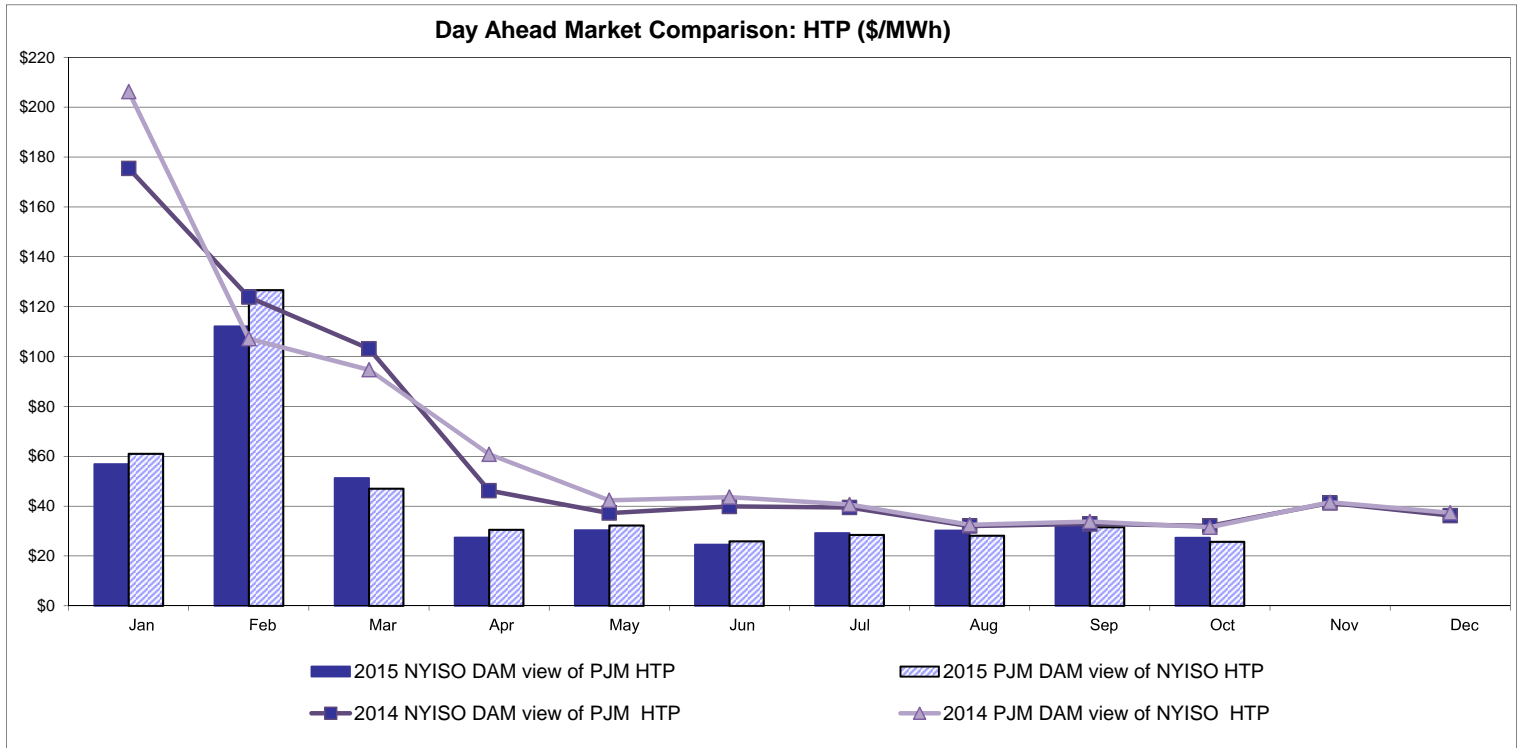


Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

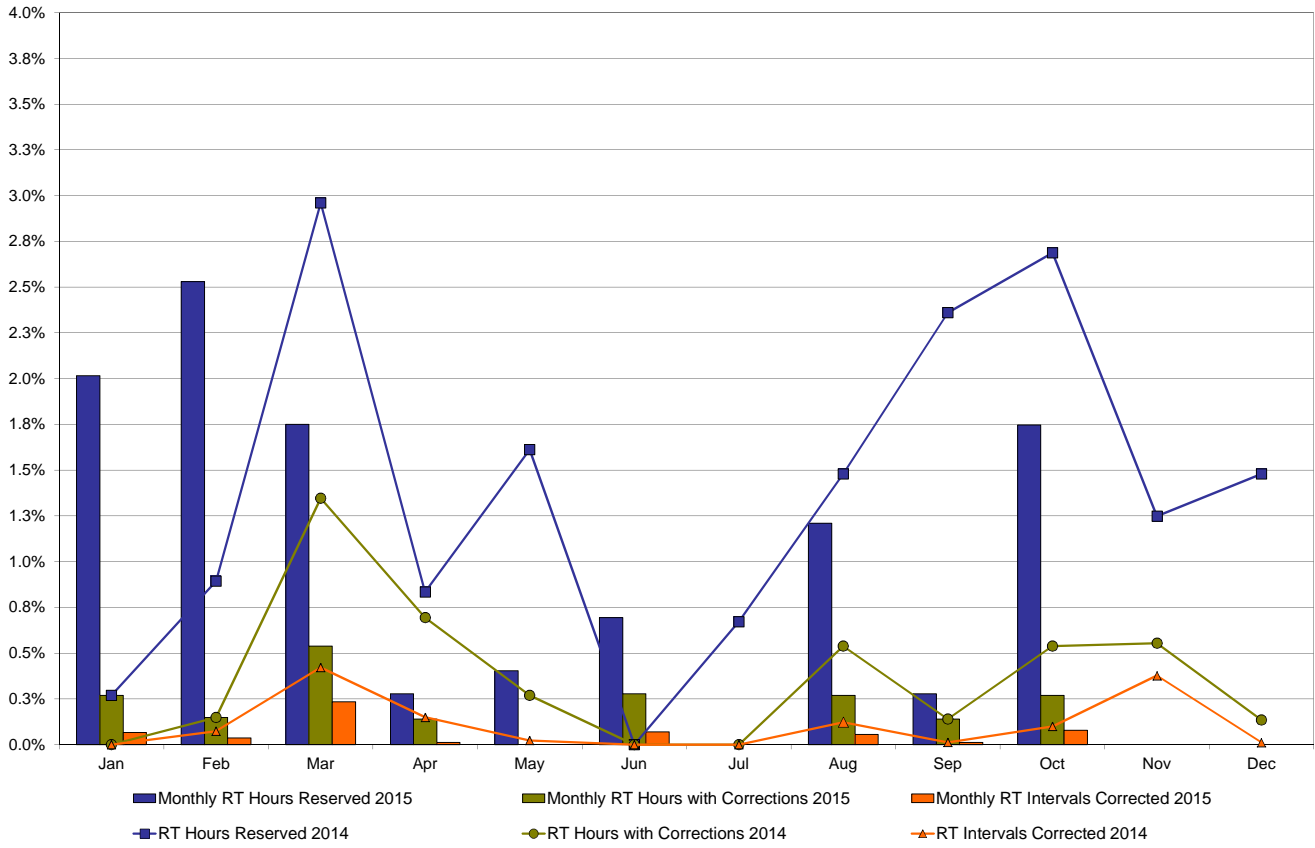


NYISO Real Time Price Correction Statistics

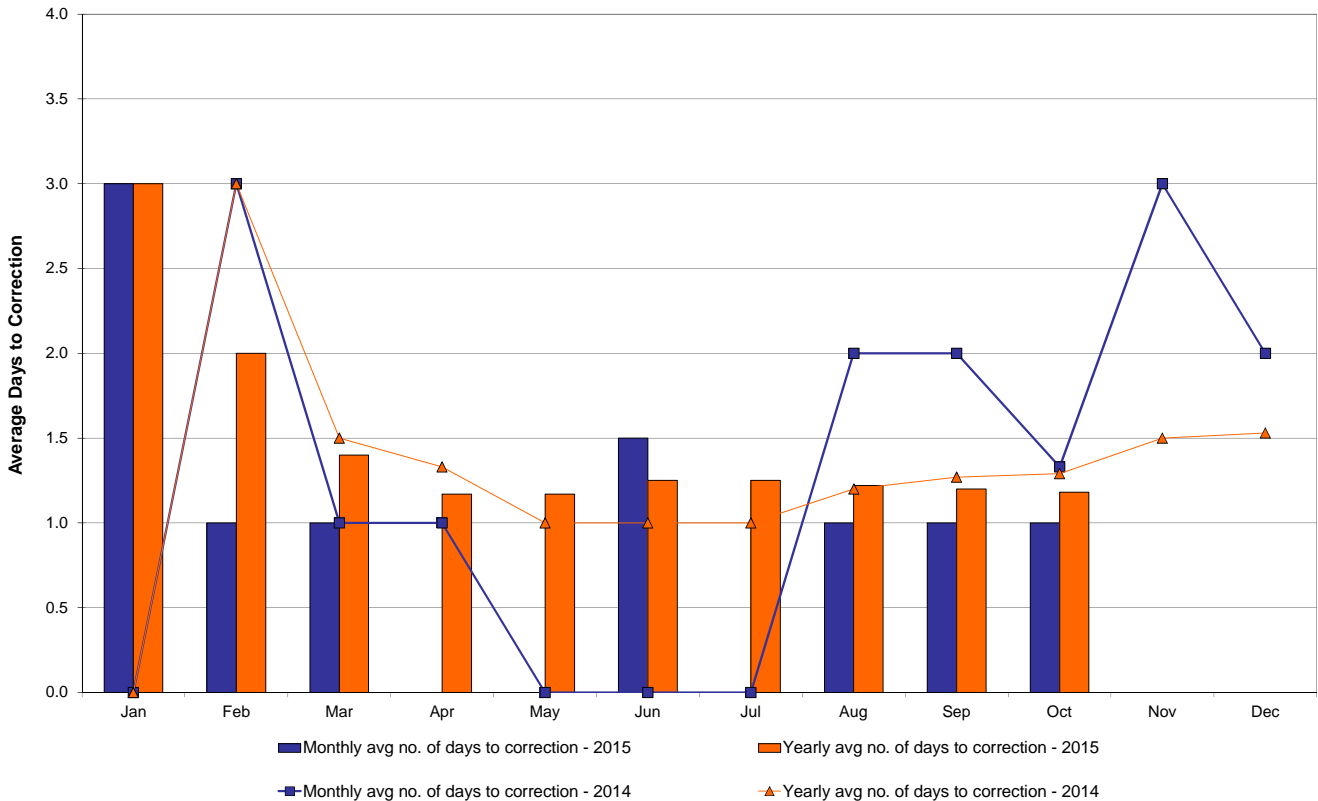
2015		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	2	1	4	1	0	2	0	2	1	2		
Number of hours	in the month	744	672	743	720	744	720	744	744	720	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%		
% 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%		
Interval Corrections													
Number of intervals corrected	in the month	6	3	21	1	0	6	0	5	1	7		
Number of intervals	in the month	9,066	8,231	9,005	8,696	9,032	8,731	9,025	8,987	8,728	9,008		
% of intervals corrected	in the month	0.07%	0.04%	0.23%	0.01%	0.00%	0.07%	0.00%	0.06%	0.01%	0.08%		
% 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%		
Hours Reserved													
Number of hours reserved	in the month	15	17	13	2	3	5	0	9	2	13		
Number of hours	in the month	744	672	743	720	744	720	744	744	720	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%		
% 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%		
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		
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		
Days Without Corrections													
Days without corrections	in the month	30	27	28	29	31	28	31	30	29	30		
Days without corrections	year-to-date	30	57	85	114	145	173	204	234	263	293		
2014		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	0	1	10	5	2	0	0	4	1	4	4	1
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	0.00%	0.15%	1.35%	0.69%	0.27%	0.00%	0.00%	0.54%	0.14%	0.54%	0.55%	0.13%
% of hours with corrections	year-to-date	0.00%	0.07%	0.51%	0.56%	0.50%	0.41%	0.35%	0.38%	0.35%	0.37%	0.39%	0.37%
Interval Corrections													
Number of intervals corrected	in the month	0	6	38	13	2	0	0	11	1	9	33	1
Number of intervals	in the month	9,232	8,205	9,023	8,720	9,030	8,729	8,999	8,975	8,779	9,026	8,763	9,030
% of intervals corrected	in the month	0.00%	0.07%	0.42%	0.15%	0.02%	0.00%	0.00%	0.12%	0.01%	0.10%	0.38%	0.01%
% of intervals corrected	year-to-date	0.00%	0.03%	0.17%	0.16%	0.13%	0.11%	0.10%	0.10%	0.09%	0.09%	0.12%	0.11%
Hours Reserved													
Number of hours reserved	in the month	2	6	22	6	12	0	5	11	17	20	9	11
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.27%	0.89%	2.96%	0.83%	1.61%	0.00%	0.67%	1.48%	2.36%	2.69%	1.25%	1.48%
% of hours reserved	year-to-date	0.27%	0.56%	1.39%	1.25%	1.32%	1.11%	1.04%	1.10%	1.24%	1.38%	1.37%	1.38%
Days to Correction *													
Avg. number of days to correction	in the month	0.00	3.00	1.00	1.00	0.00	0.00	0.00	2.00	2.00	1.33	3.00	2.00
Avg. number of days to correction	year-to-date	0.00	3.00	1.50	1.33	1.00	1.00	1.00	1.20	1.27	1.29	1.50	1.53
Days Without Corrections													
Days without corrections	in the month	31	27	28	28	29	30	31	29	29	28	28	30
Days without corrections	year-to-date	31	58	86	114	143	173	204	233	262	290	318	348

* Calendar days from reservation date.

Percentage of Real-Time Corrections

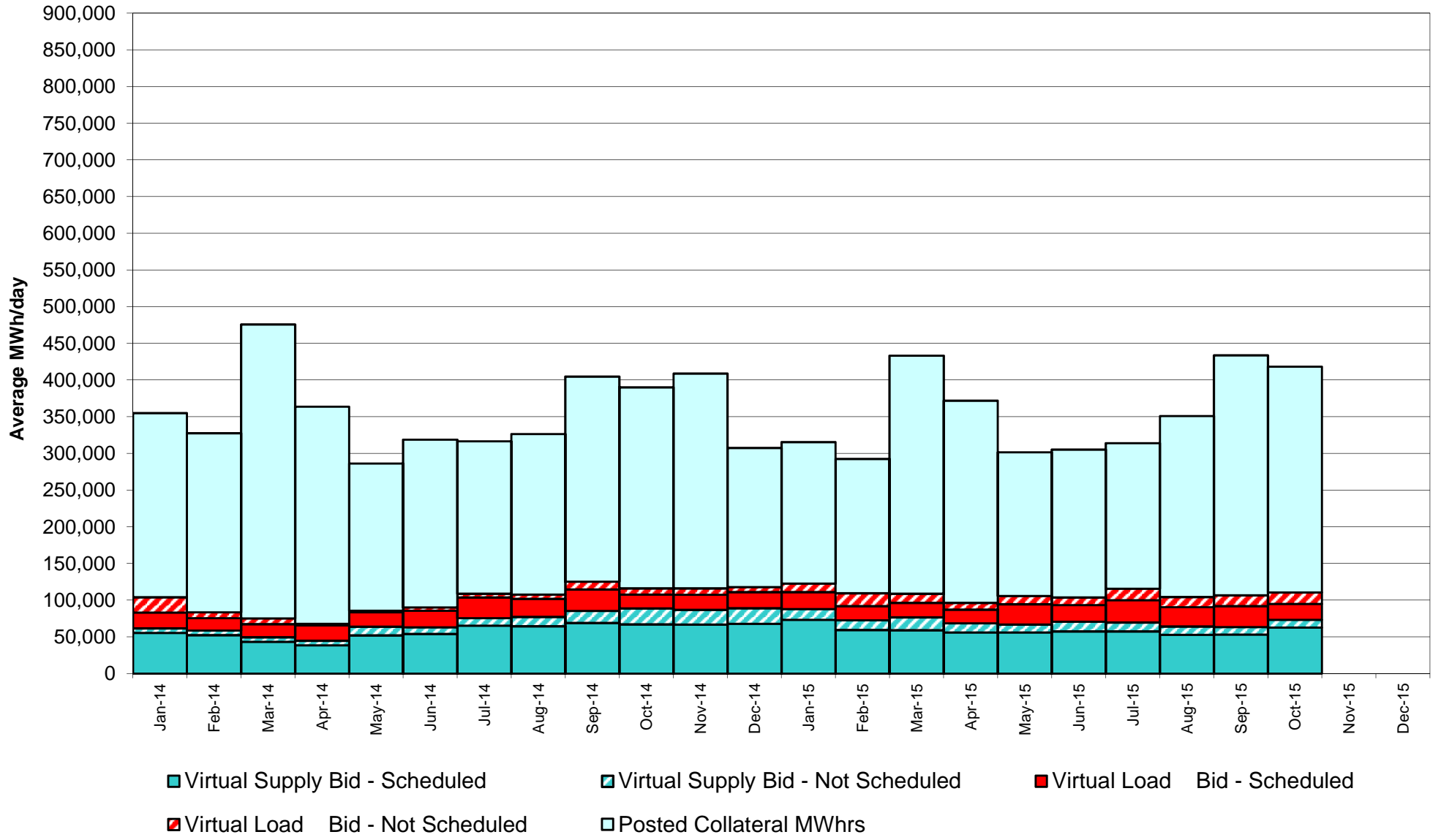


Annual average time period for making Price Corrections (from reservation date) *

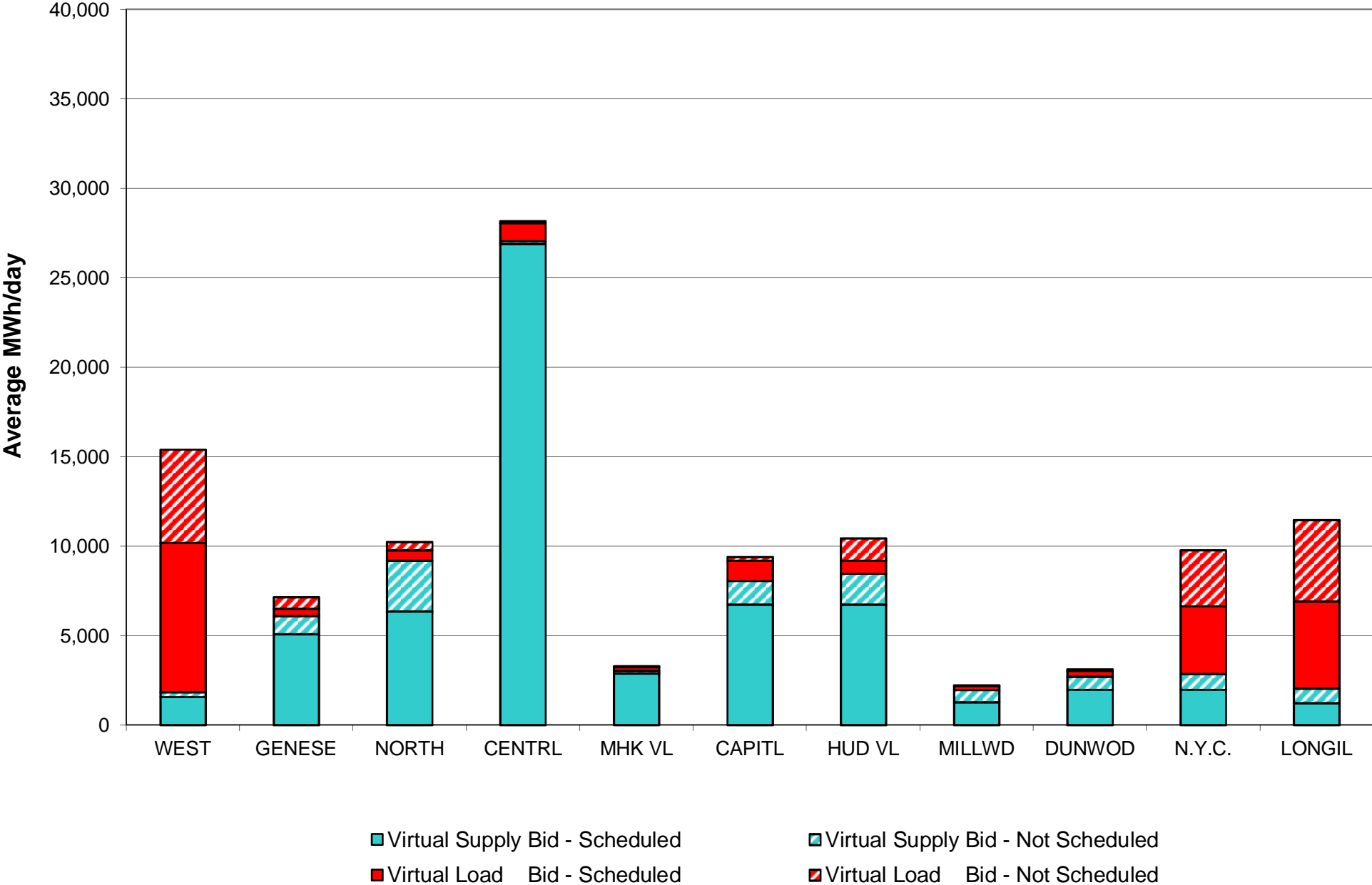


* Calendar days from reservation date.

NYISO Virtual Trading Average MWh per day



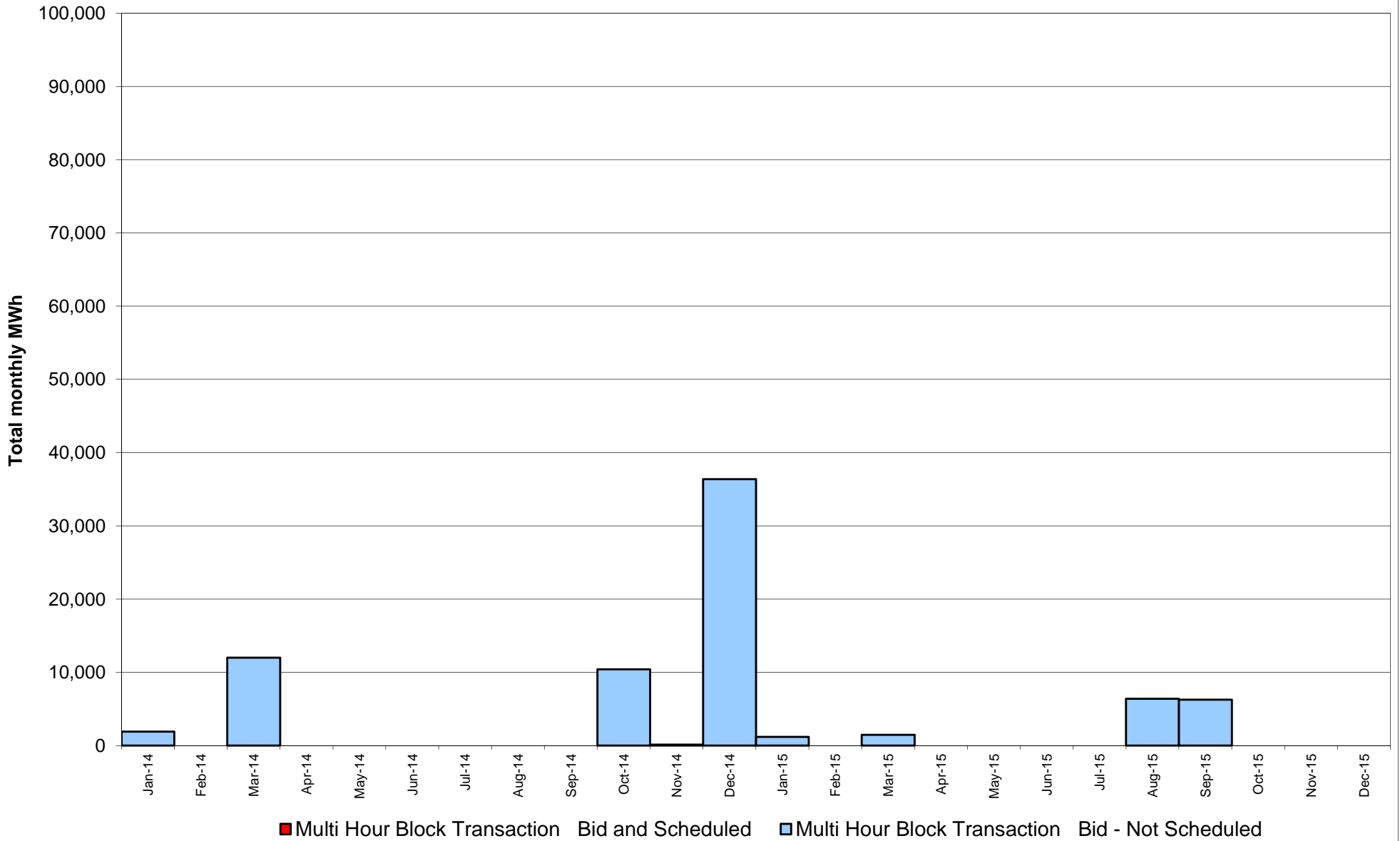
Virtual Load and Supply Zonal Statistics through October 31, 2015



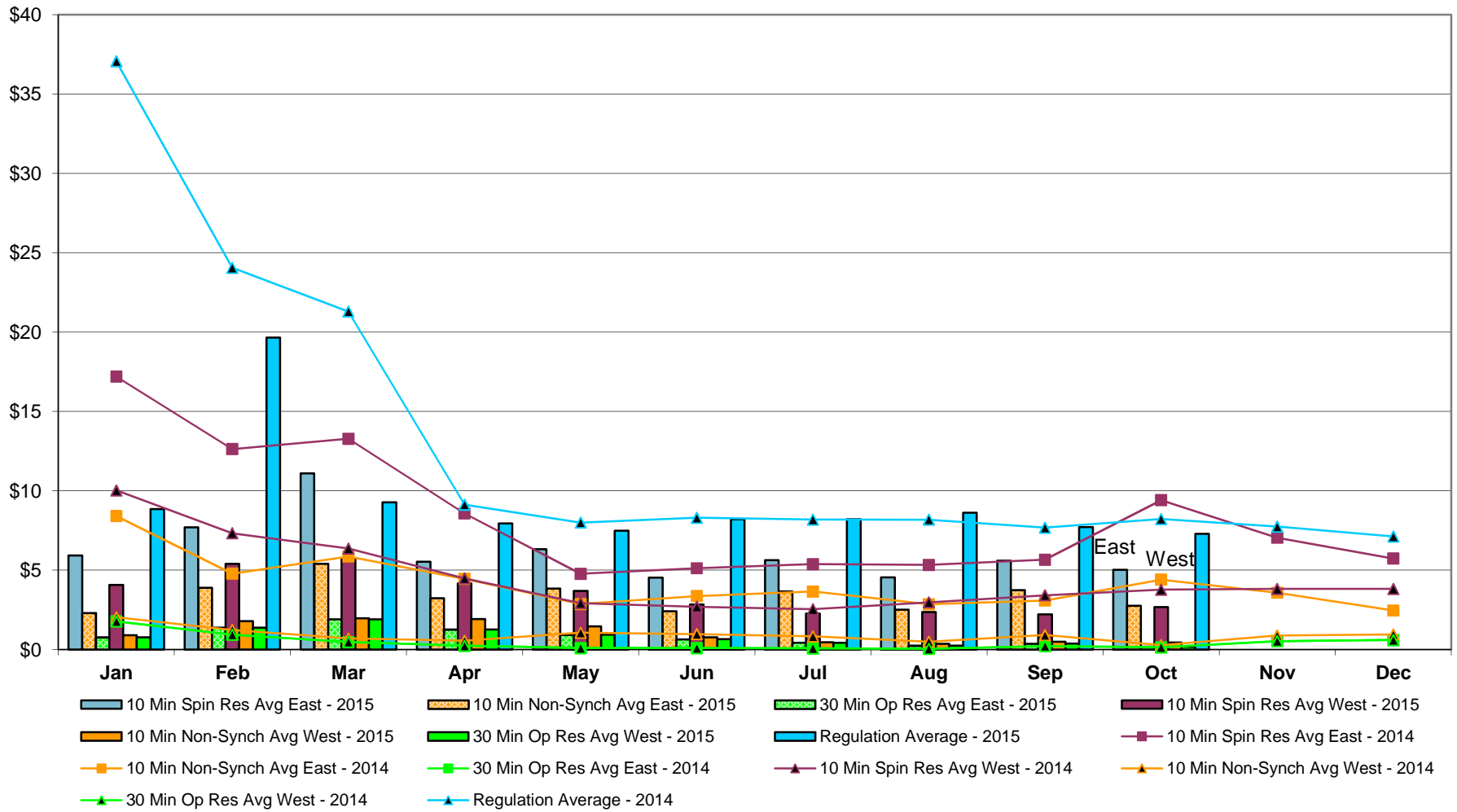
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2015

		Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
WEST	Jan-15	6,244	977	3,837	688	MHK VL	Jan-15	534	185	1,757	1,021	DUNWOD	Jan-15	669	444	831	166
	Feb-15	3,180	1,570	3,288	936		Feb-15	901	790	1,446	812		Feb-15	647	663	725	156
	Mar-15	5,796	1,992	3,185	1,223		Mar-15	626	458	2,120	718		Mar-15	621	566	1,224	536
	Apr-15	6,734	1,797	1,790	419		Apr-15	293	226	3,094	867		Apr-15	433	299	1,517	366
	May-15	9,778	3,320	1,381	465		May-15	248	102	1,746	482		May-15	1,385	308	904	400
	Jun-15	8,135	3,156	1,800	584		Jun-15	151	24	2,252	734		Jun-15	1,107	434	1,435	462
	Jul-15	9,099	5,102	2,521	434		Jul-15	632	70	2,726	521		Jul-15	1,674	375	1,220	427
	Aug-15	9,631	5,063	1,898	560		Aug-15	251	50	2,250	427		Aug-15	755	170	1,531	297
	Sep-15	9,570	4,543	1,494	278		Sep-15	568	53	2,202	292		Sep-15	663	333	3,365	622
	Oct-15	8,340	5,231	1,587	248		Oct-15	200	59	2,878	154		Oct-15	344	78	1,977	724
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
GENESE	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	2,429
	Feb-15	229	347	7,477	1,425		Feb-15	3,192	3,267	6,354	2,035		Feb-15	2,944	2,375	658	690
	Mar-15	452	350	7,559	2,735		Mar-15	2,234	2,029	6,772	2,411		Mar-15	2,687	1,133	894	1,593
	Apr-15	161	254	4,771	1,991		Apr-15	1,558	991	7,368	2,215		Apr-15	2,470	377	808	500
	May-15	349	167	4,831	1,643		May-15	1,518	201	7,032	1,751		May-15	5,397	1,487	918	367
	Jun-15	188	229	4,911	2,115		Jun-15	563	230	8,840	2,709		Jun-15	3,683	1,091	864	494
	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	174
	Aug-15	264	123	4,307	1,740		Aug-15	1,002	271	6,591	2,846		Aug-15	6,991	2,435	981	252
	Sep-15	419	162	4,275	1,182		Sep-15	809	212	5,319	2,181		Sep-15	7,568	3,565	1,344	472
	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	880
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
NORTH	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	1,487
	Feb-15	274	423	7,361	1,898		Feb-15	769	2,147	2,841	2,800		Feb-15	4,383	3,985	613	1,722
	Mar-15	422	572	6,213	2,540		Mar-15	747	1,578	5,045	3,272		Mar-15	4,639	2,844	464	1,719
	Apr-15	223	366	8,249	3,243		Apr-15	1,180	1,056	6,875	1,292		Apr-15	4,399	3,064	760	678
	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	394
	Jun-15	169	196	6,060	2,977		Jun-15	825	914	5,600	1,251		Jun-15	6,015	3,918	768	792
	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	766
	Aug-15	299	288	5,619	2,871		Aug-15	1,195	1,663	5,086	863		Aug-15	4,341	3,681	1,086	1,236
	Sep-15	286	249	6,481	2,280		Sep-15	1,244	1,629	5,648	1,236		Sep-15	5,628	3,802	860	842
	Oct-15	590	475	6,355	2,830		Oct-15	736	1,241	6,738	1,726		Oct-15	4,874	4,563	1,234	795
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
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	2,306	1,265	28,050	579		Feb-15	562	674	627	186		Feb-15	19,386	17,506	59,440	13,238
	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	12,458
	May-15	908	249	24,901	400		May-15	497	126	668	200		May-15	27,711	11,315	56,132	10,736
	Jun-15	1,104	194	24,287	791		Jun-15	588	24	790	277		Jun-15	22,528	10,411	57,608	13,186
	Jul-15	1,401	358	23,806	636		Jul-15	866	45	776	121		Jul-15	30,416	15,865	57,752	11,905
	Aug-15	975	105	22,347	222		Aug-15	542	48	1,024	187		Aug-15	26,248	13,898	52,720	11,501
	Sep-15	1,206	240	20,987	217		Sep-15	509	34	1,380	415		Sep-15	28,471	14,820	53,355	10,017
	Oct-15	1,006	129	26,899	155		Oct-15	251	14	1,271	673		Oct-15	21,713	15,719	62,752	10,491
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				

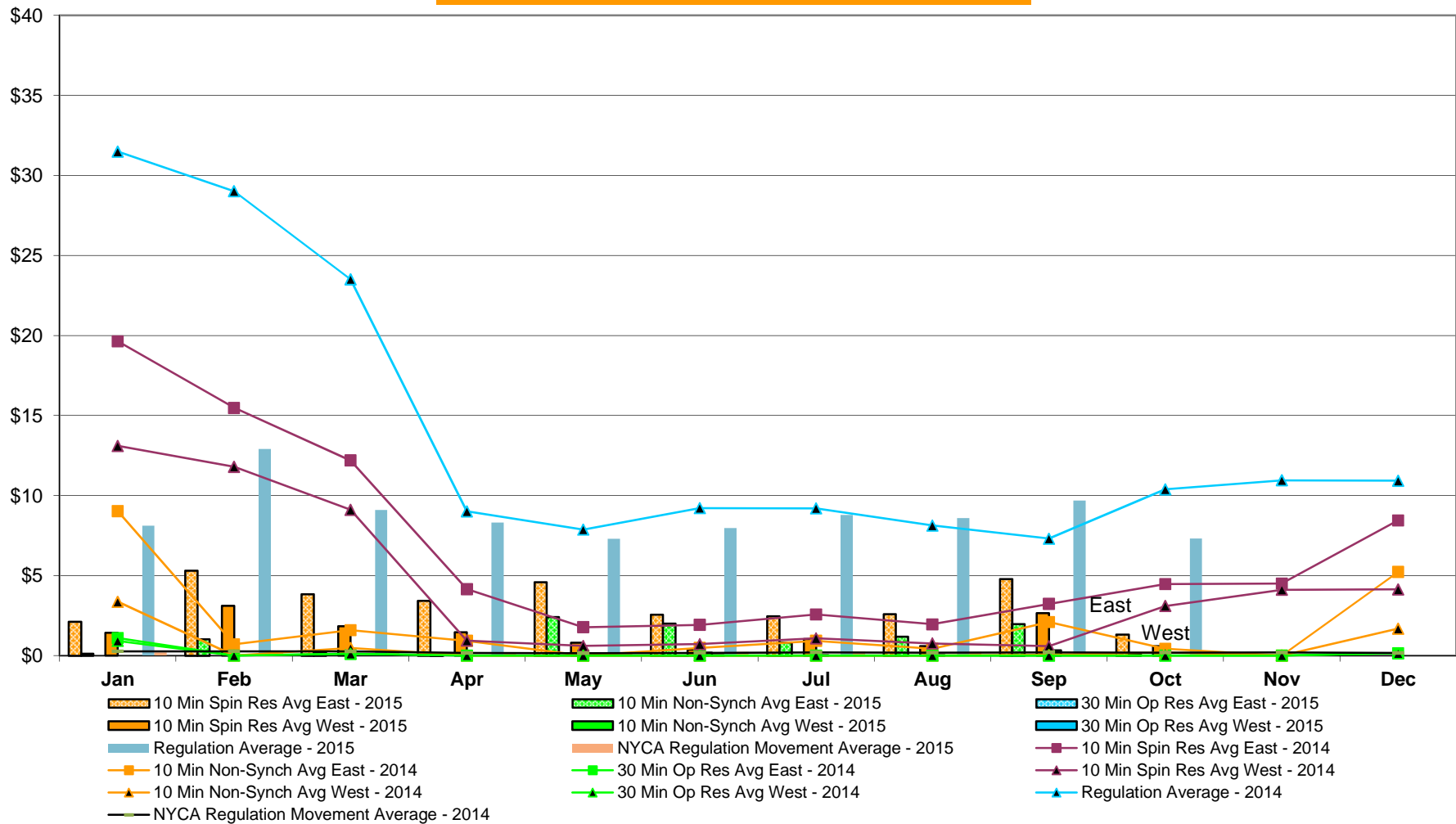
NYISO Multi Hour Block Transactions Monthly Total MWh



NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2014 - 2015



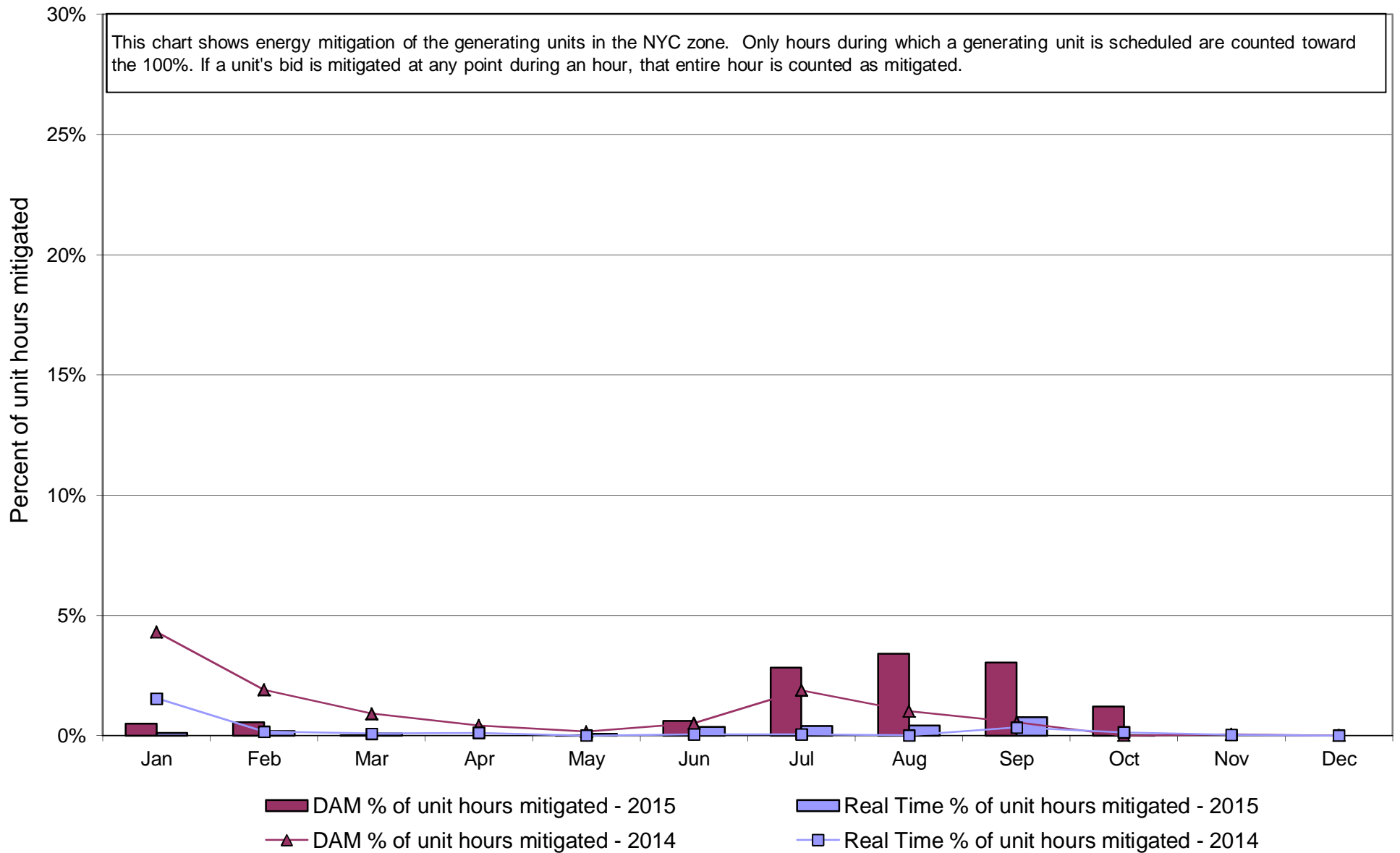
NYISO Monthly Average Ancillary Service Prices Real Time Market 2014 - 2015



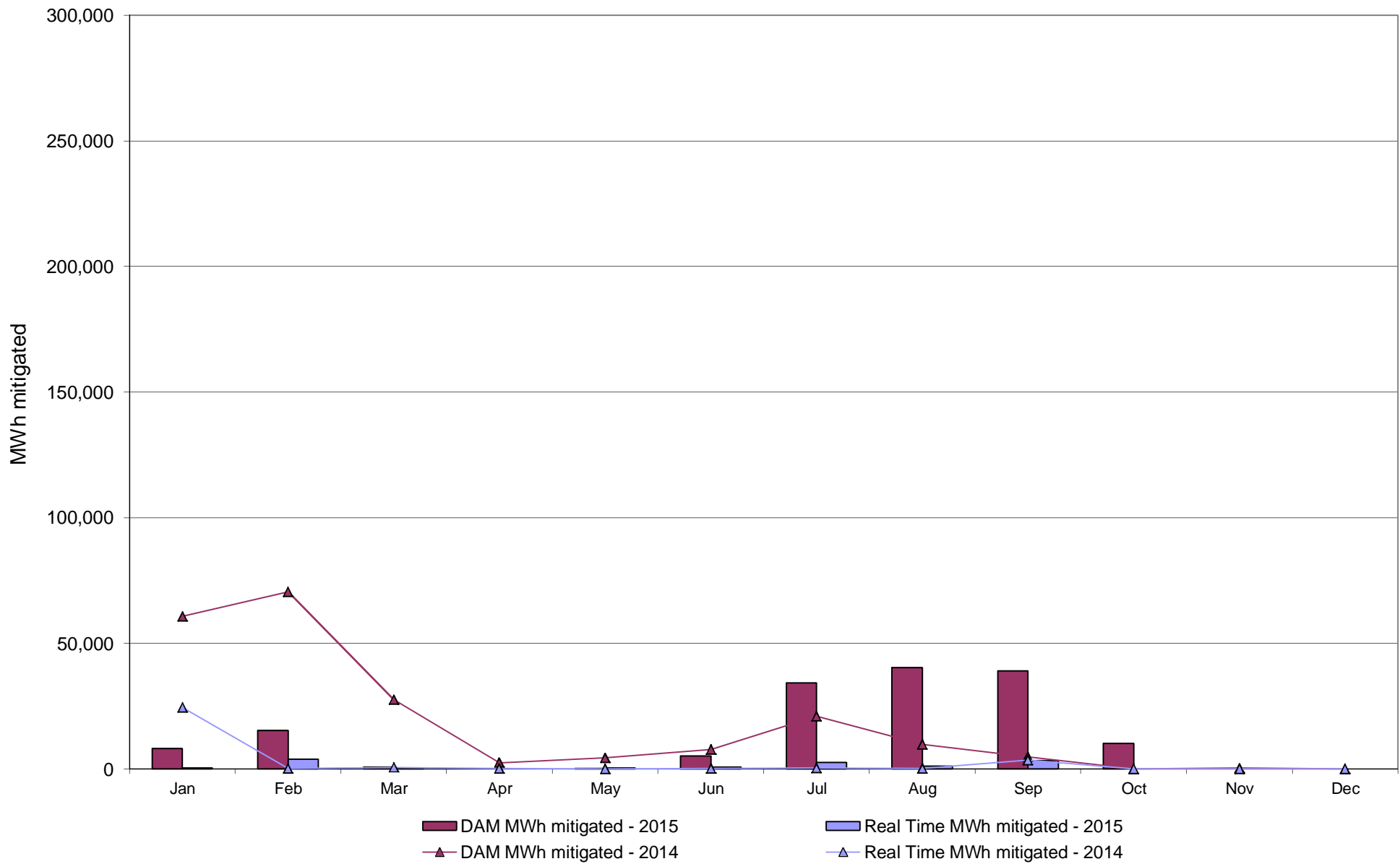
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

2015	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market												
10 Min Spin East	5.92	7.69	11.09	5.53	6.31	4.53	5.62	4.54	5.60	5.02		
10 Min Spin West	4.07	5.40	5.68	4.16	3.69	2.84	2.26	2.36	2.20	2.68		
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		
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		
30 Min East	0.77	1.38	1.91	1.26	0.93	0.64	0.43	0.24	0.37	0.18		
30 Min West	0.77	1.38	1.91	1.26	0.93	0.64	0.43	0.24	0.37	0.18		
Regulation	8.84	19.65	9.27	7.94	7.48	8.20	8.20	8.61	7.71	7.29		
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		
10 Min Spin West	0.74	1.61	0.86	0.81	1.48	0.04	0.69	0.70	1.53	0.20		
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		
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		
30 Min East	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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		
Regulation	7.45	11.32	8.13	7.56	7.06	7.24	7.97	8.07	8.49	6.73		
NYCA Regulation Movement	0.21	0.21	0.16	0.22	0.16	0.24	0.25	0.23	0.24	0.23		
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		
10 Min Spin West	1.44	3.11	1.83	1.46	0.81	0.38	1.04	0.59	2.65	0.59		
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		
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		
30 Min East	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00		
30 Min West	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00		
Regulation	8.12	12.91	9.11	8.32	7.30	7.97	8.80	8.60	9.69	7.32		
NYCA Regulation Movement	0.20	0.21	0.17	0.15	0.16	0.24	0.24	0.24	0.24	0.23		
2014												
	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<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

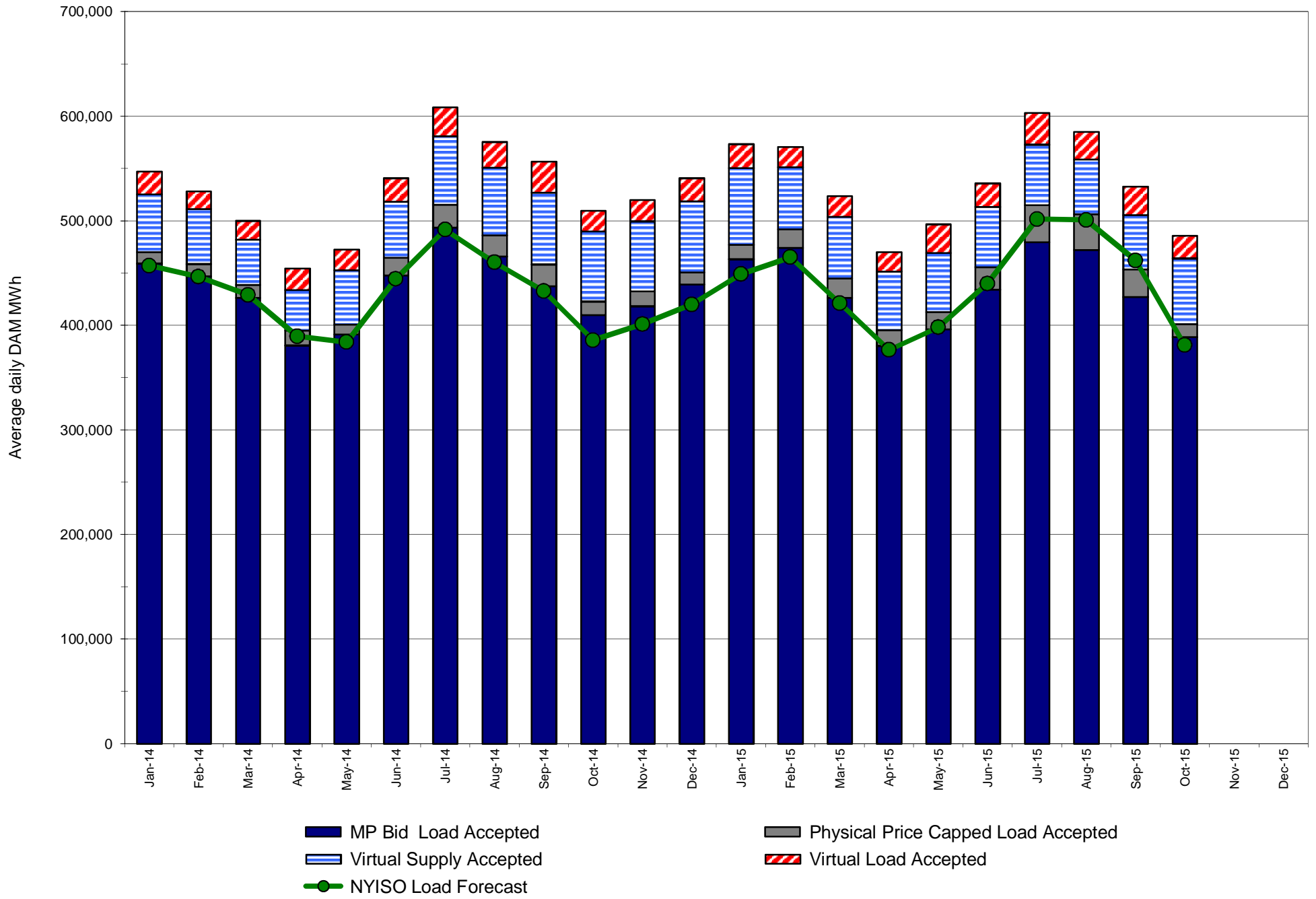
NYISO In City Energy Mitigation - AMP (NYC Zone) 2014 - 2015 Percentage of committed unit-hours mitigated



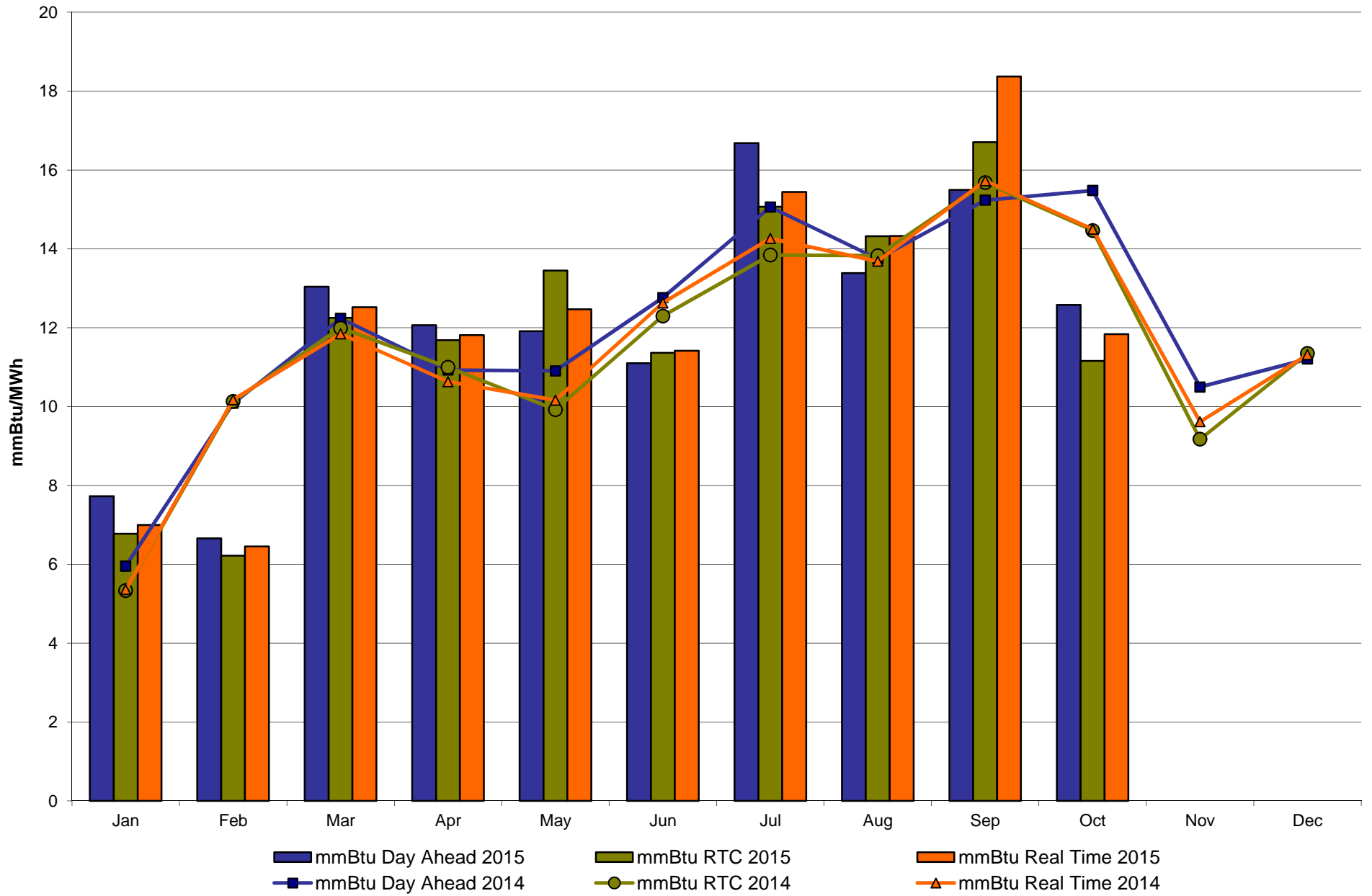
NYISO In City Energy Mitigation (NYC Zone) 2014 - 2015
Monthly megawatt hours mitigated



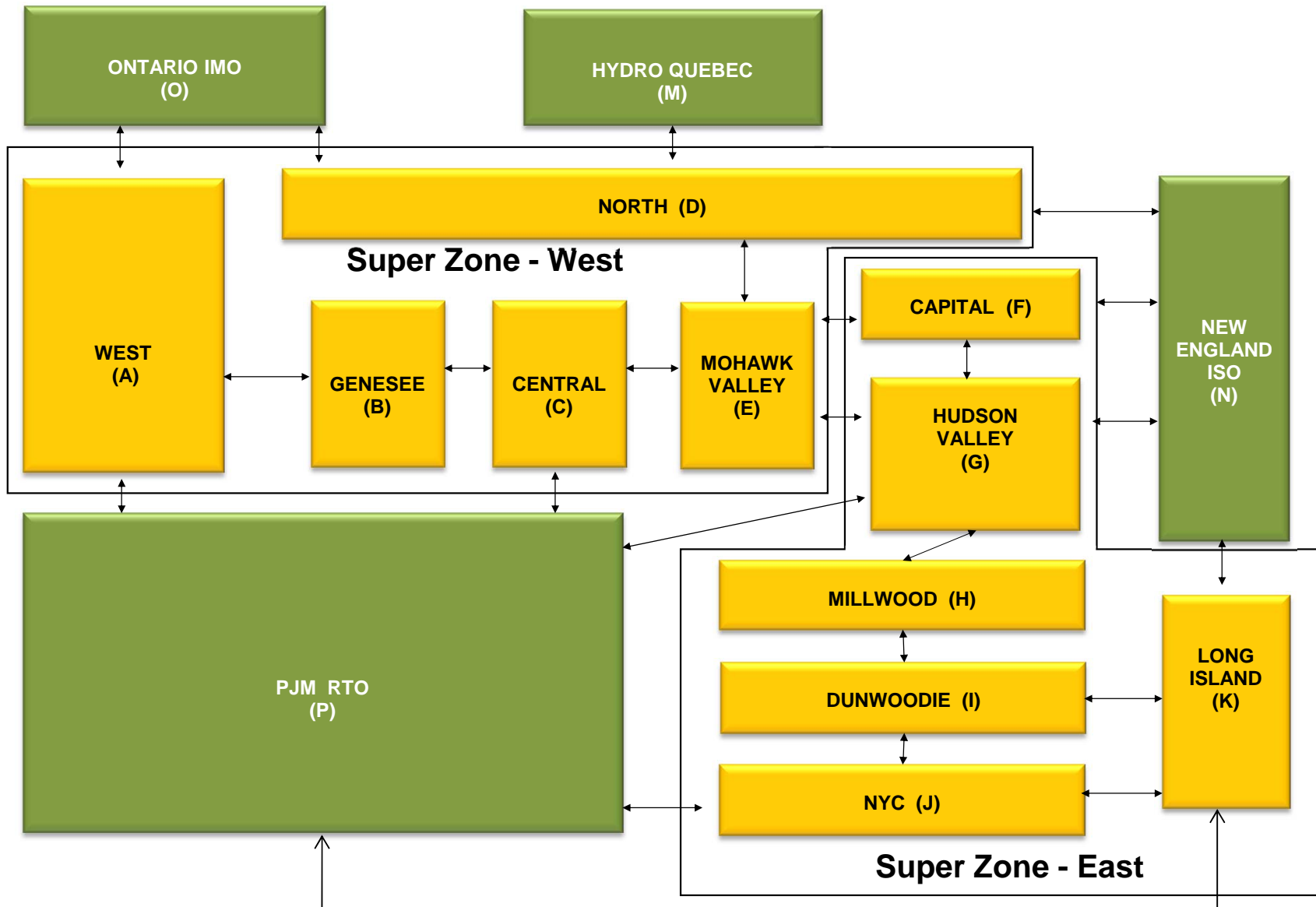
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2014-2015



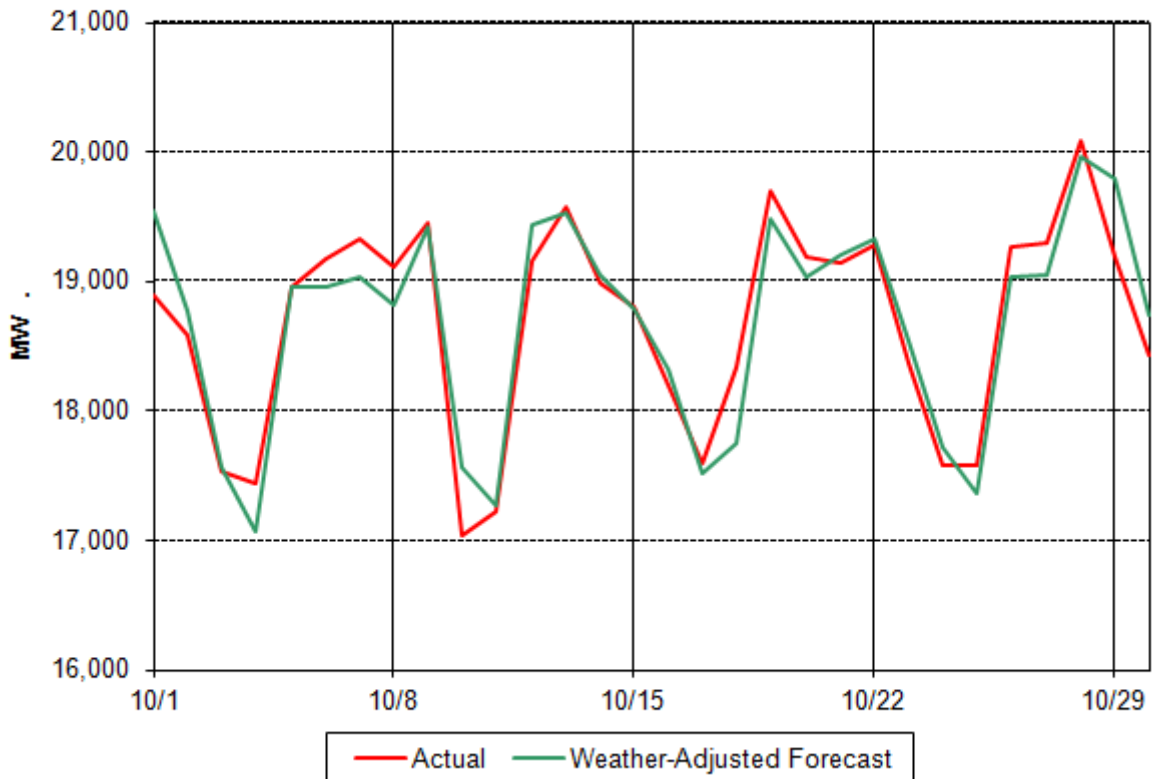
NYISO LBMP ZONES



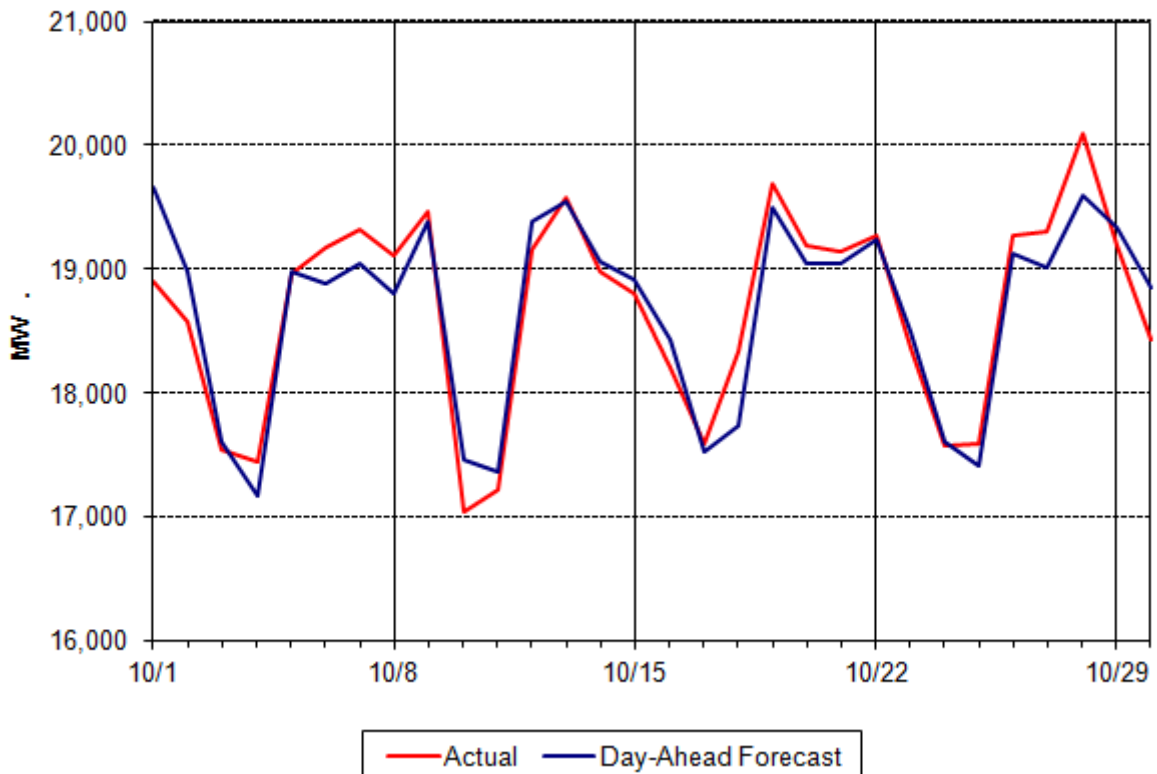
Billing Codes for Chart 4-C

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

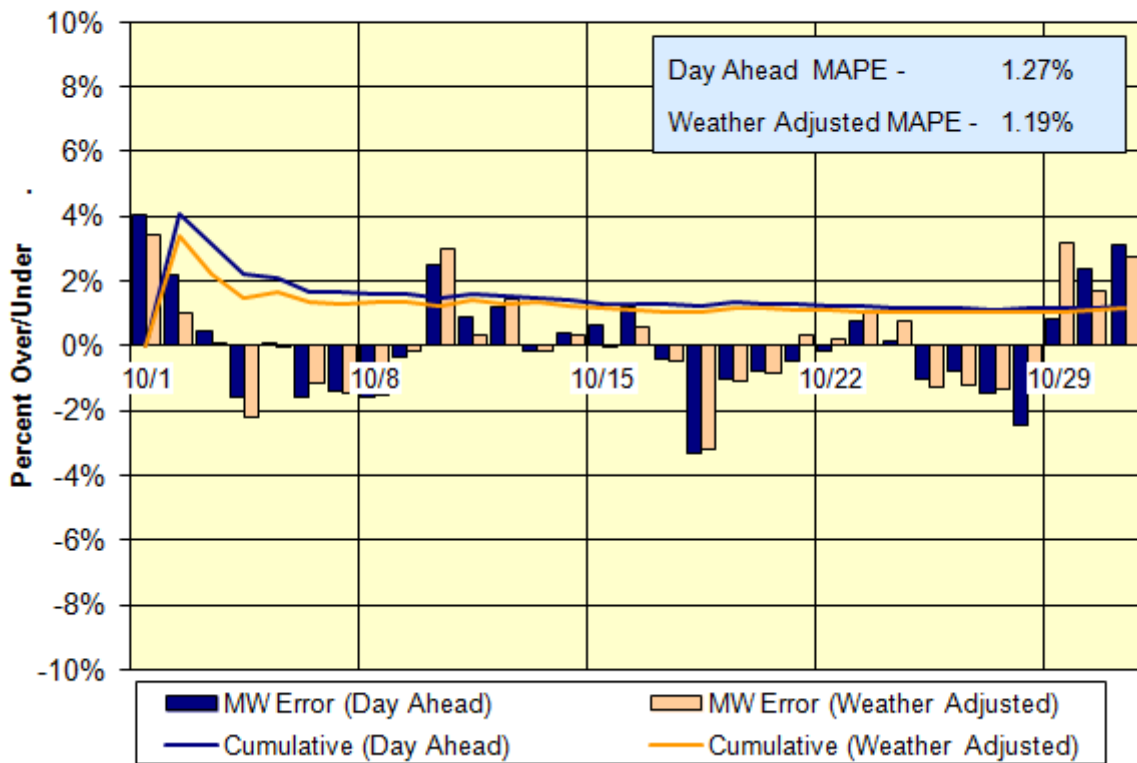
**NYISO Daily Peak Load - October 2015
Actual vs. Weather-Adjusted Forecast**



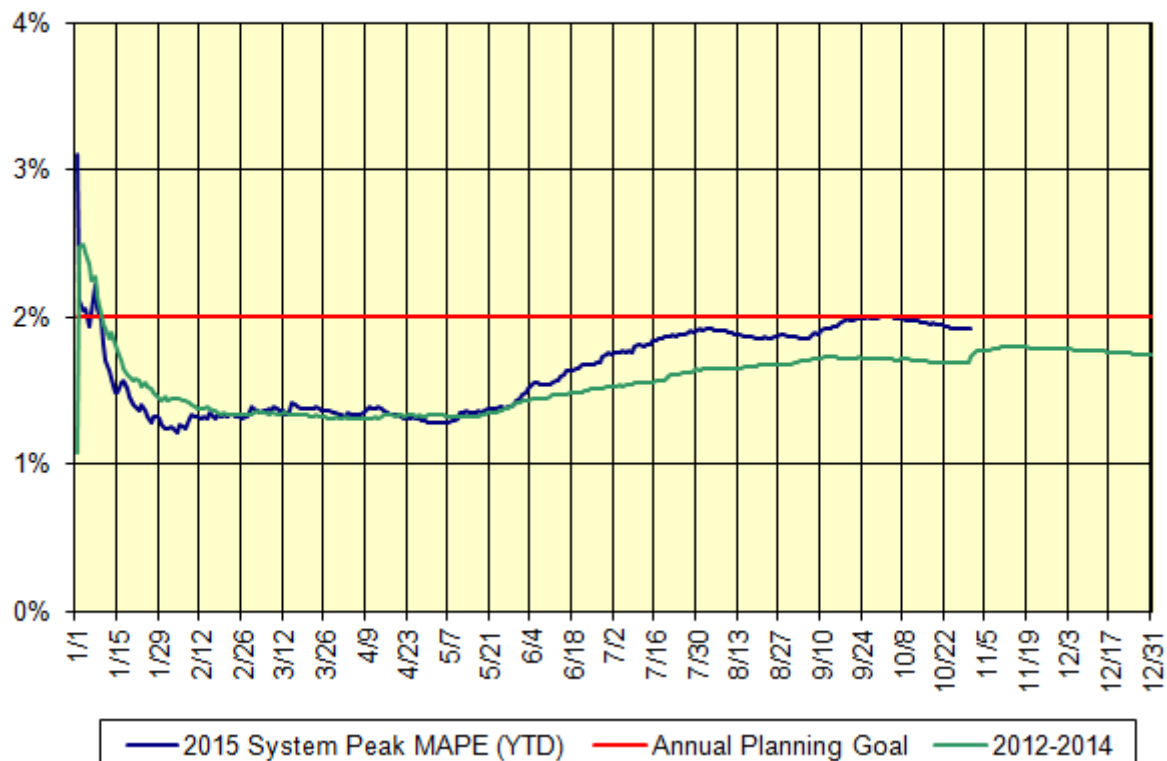
**NYISO Daily Peak Load - October 2015
Actual vs. Forecast**



Day Ahead Peak Forecast - October 2015 Percent Error - Actual & Weather Adjusted



Day-Ahead Forecast Accuracy - Cumulative Performance 2015 Year-to-Date



Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – October 2015

Filing Date	Filing Summary	Docket	Order Date	Order Summary
04/23/2012	Seneca Power Partners (“Seneca”) requested rehearing of the 03/22/2012 Order in which FERC denied in part and dismissed in part the Seneca v. NYISO complaint alleging that NYISO improperly determined the reference levels for Seneca’s gas-fired cogeneration facility	EL12-6-001	10/30/2015	FERC order denied the Seneca request for rehearing of the 03/22/2012 order
06/01/2015	NYISO compliance filing re: market rules concerning outage states	ER14-2518-003	10/15/2015	FERC letter order accepted the filing effective 05/01/2015, as requested
06/29/2015	NYISO filing of an answer re: a complaint v. NYISO filed by NYPSC, NYSERDA and NYPA concerning the buyer side mitigation rules	EL15-64-000	10/09/2015	FERC order granted the complaint in part and directed a compliance filing within 90 days (i.e., 01/07/2016)
10/02/2015	NYISO confidential filing re: response to an information request from DPS Staff concerning the NYISO’s Long Term Incentive Compensation goals	PSC Matter No. 10-02007		
10/12/2015	NYISO confidential filing re: NYISO’s three-month <i>Reliability Commitment Data Report</i> for the period ending 10/30/2015	PSC Matter No. 10-02007		
10/15/2015	NYISO filing re: 3 rd quarter 2015 report on the status of System Impact Study requests in the NYISO queue	RM05-25-000		
10/16/2015	NYISO filing re: request for extension of time to file certain compliance tariff revisions related to comprehensive shortage pricing	ER15-1061-000		
10/19/2015	NYISO compliance filing re: reliability must run tariff provisions	ER16-120-000		
10/20/2015	NYISO compliance/errata filing re: notification of tariff section effective date and ministerial errata concerning comprehensive shortage pricing	ER15-1061-001		
10/21/2015	NYISO motion to intervene and comment re: Galt Power request for tariff waiver concerning submission of data for certain SCRs that Galt brings to the NYISO’s ICAP Market	ER15-2750-000		
10/27/2015	NYISO filing re: deficiency response and refiling of its public policy transmission planning process tariff revisions	ER15-2059-001		
10/29/2015	NYISO filing re: amendments to its market power mitigation measures regarding physical withholding and reflecting fuel costs in reference levels	ER16-168-000		

10/30/2015	NYISO filing re: amendments to increase eligibility for the special market rules applicable to generators serving the NYC steam distribution system	ER16-185-000		
10/30/2015	NYISO letter to the NYPSC re: NYS transmission system reliability impacts concerning retirement of NRG Energy Inc.'s Huntley units and mothballing of Dunkirk generating units	PSC Case Nos. 15-E-0505 12-E-0136 12-E-0577		
10/30/2015	PJM filing, on behalf of CAISO, ISO-NE, MISO, NYISO and SPP, of the 2015 ISO/RTO Metrics Report	AD14-15-000		
10/30/2015	NYISO filing of its third quarter 2015 EQR report	ER02-2001-000		