



Monthly Report

May 2016

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Operations Performance Metrics Monthly Report



May 2016 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 June 8, 2016.

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May 2016 Operations Performance Highlights

- Peak load of 25,061 MW occurred on 05/31/2016 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 2 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- The Niagara distributed modeling improvement was activated in the Energy market on 05/04/2016.
- The Western New York 230kV Series Reactor and Huntley Capacitor Banks were put in service on 05/19/2016 and 05/26/2016 respectively.
- The TOTs re-conductoring of the Fraser-Coopers 345kV (#33) was completed 05/22/2016.
- The TOTS new Rock Tavern-Ramapo 345kV (#76) was placed in service on 05/27/2016.
- The TOTS Staten Island feeder unbundling project was completed on 05/30/2016.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

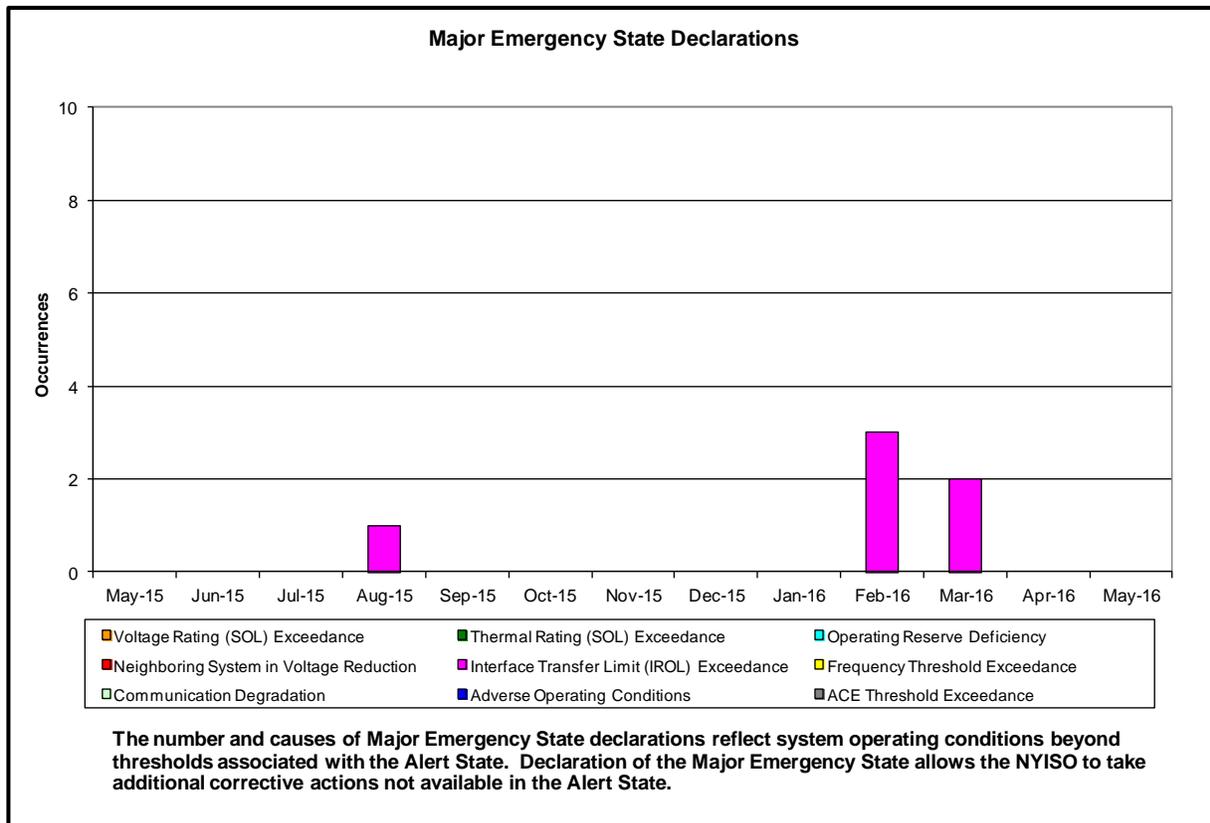
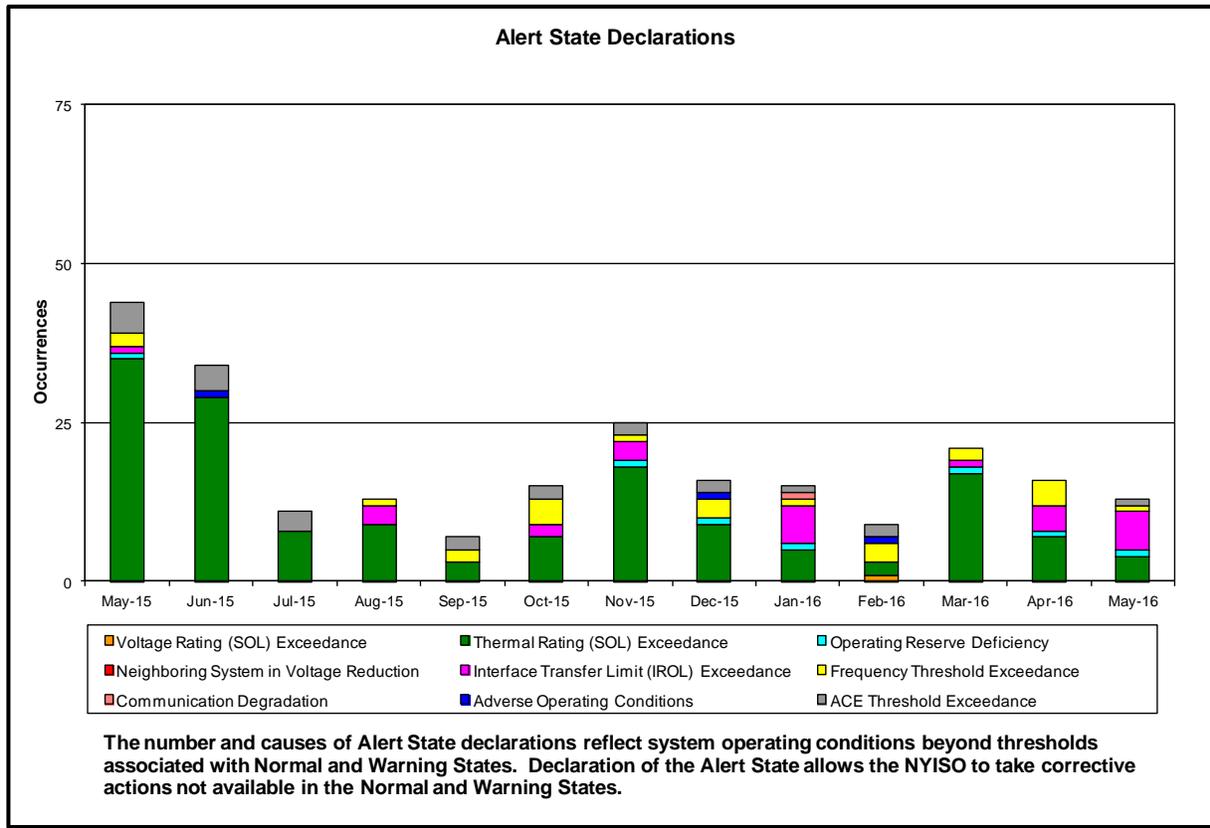
	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.73	\$14.16
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.06)	\$0.12
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.05)	(\$0.85)
Total NY Savings	\$0.62	\$13.43
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.12	\$0.92
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.21	\$0.66
Total Regional Savings	\$0.33	\$1.58

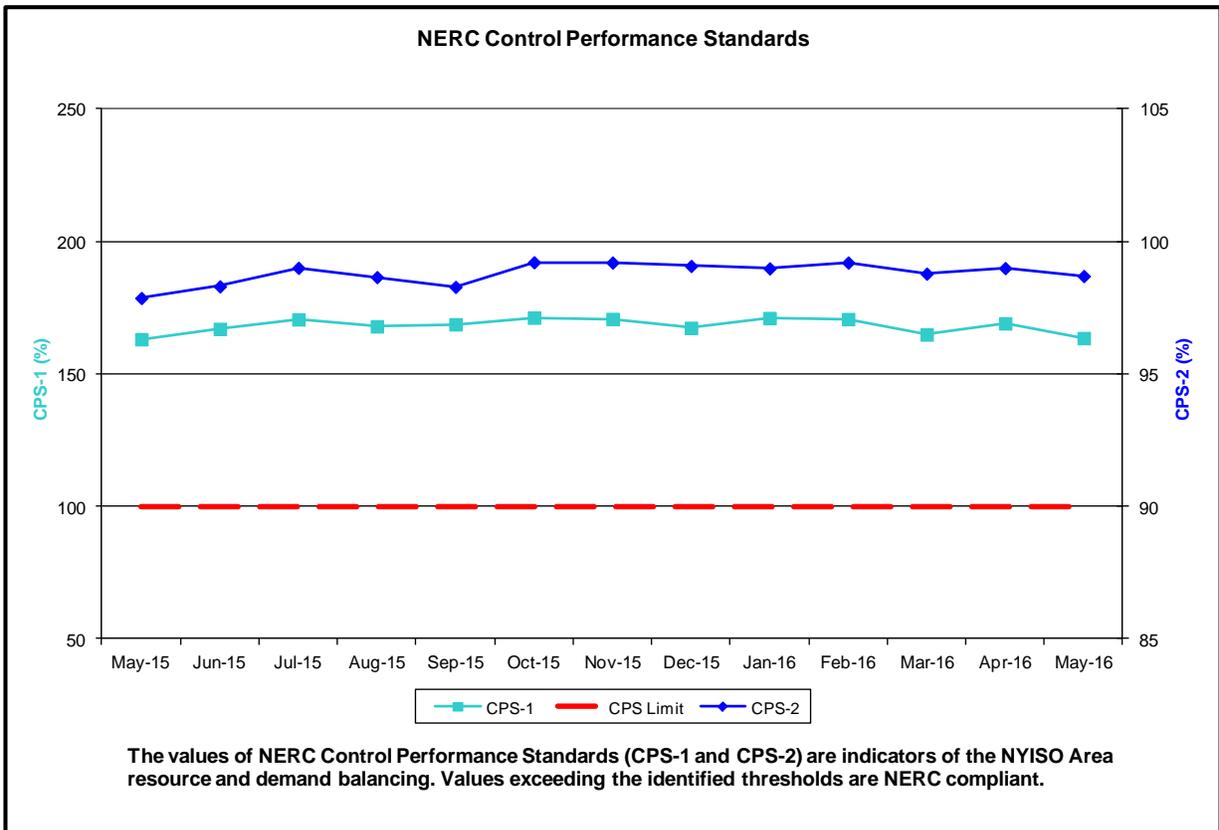
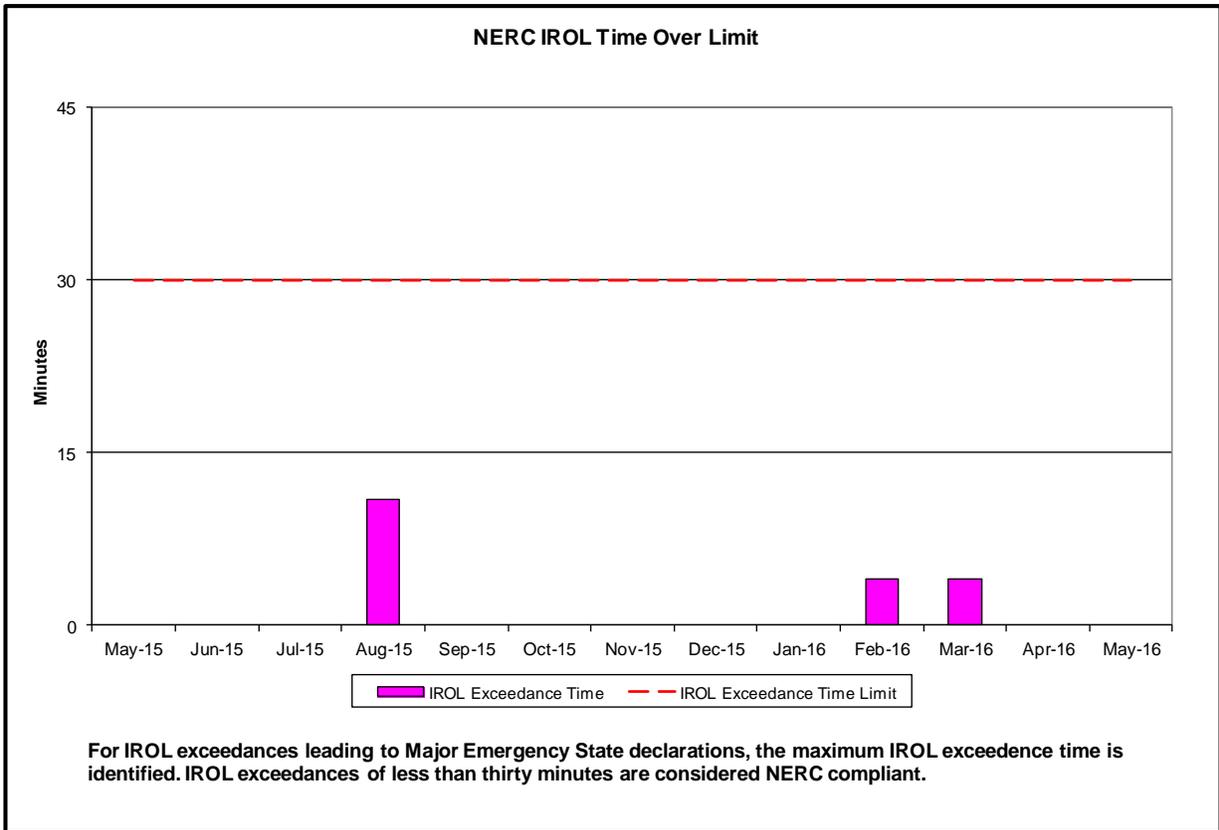
- Statewide uplift cost monthly average was **(\$0.16)/MWh**
- The following table identifies the Monthly ICAP spot market prices by locality and the price delta.

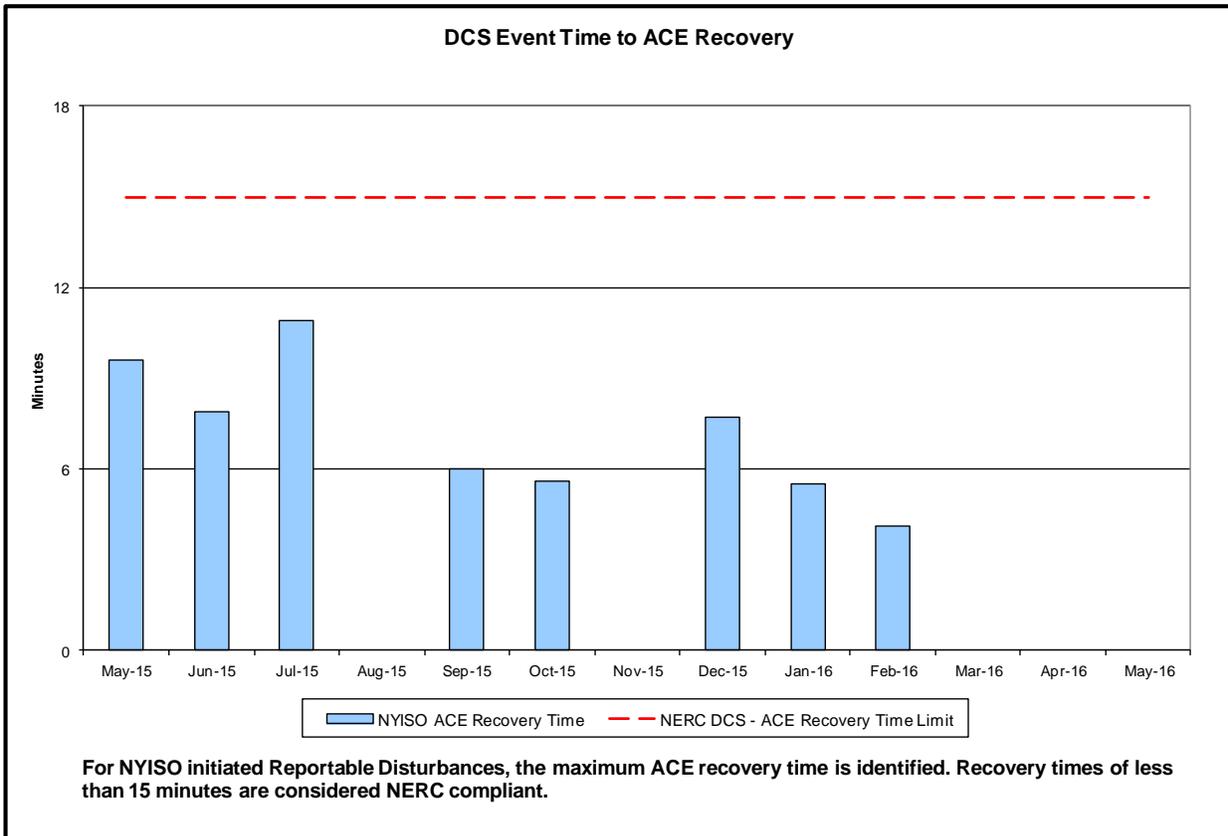
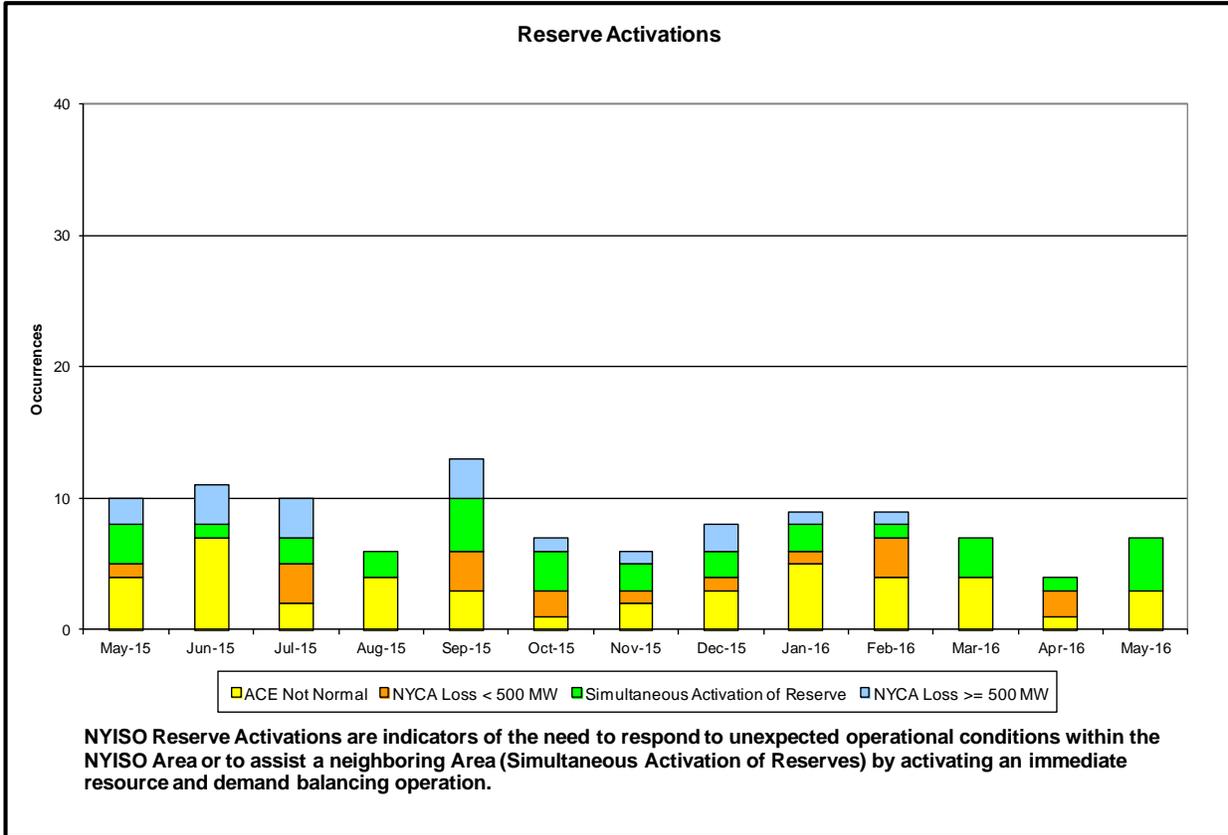
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
June 2016 Spot Price	\$4.89	\$9.28	\$12.29	\$4.89
May 2016 Spot Price	\$5.27	\$9.36	\$12.41	\$5.27
Delta	(\$0.38)	(\$0.08)	(\$0.12)	(\$0.38)

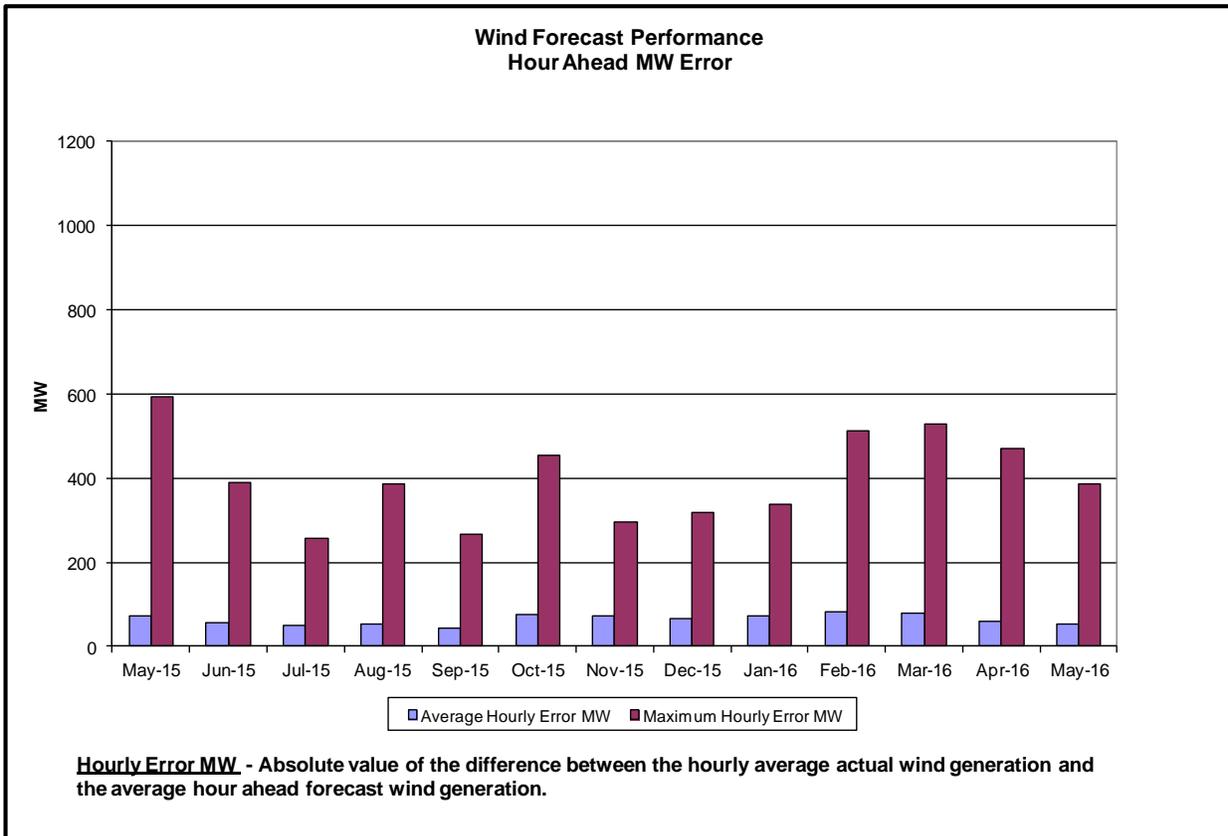
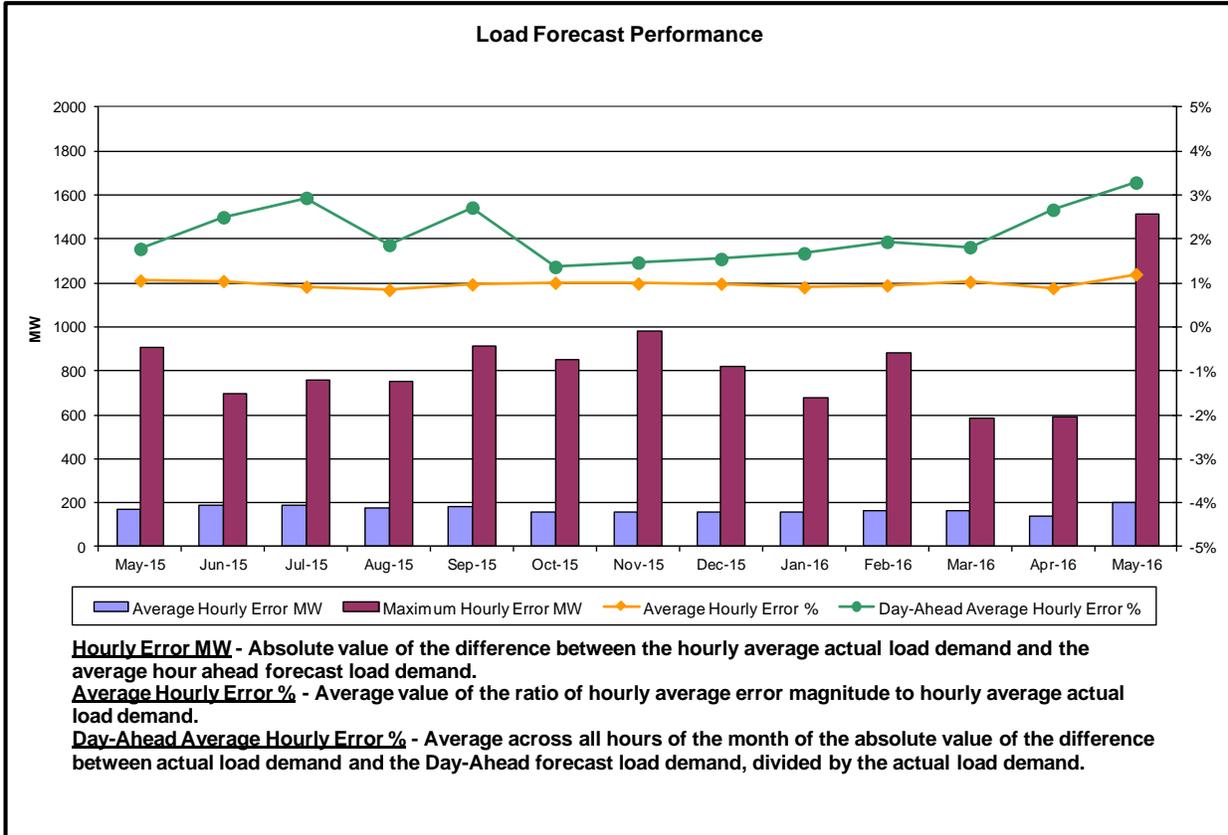
- NYC - Price decreases by \$0.12 due to increases in SCR UCAP available
- LI - Price decreases by \$0.38 due NYCA price decreasing. NYCA set the LI price for this month.
- NYCA- Price decreases by \$0.38 due to an increase in imports

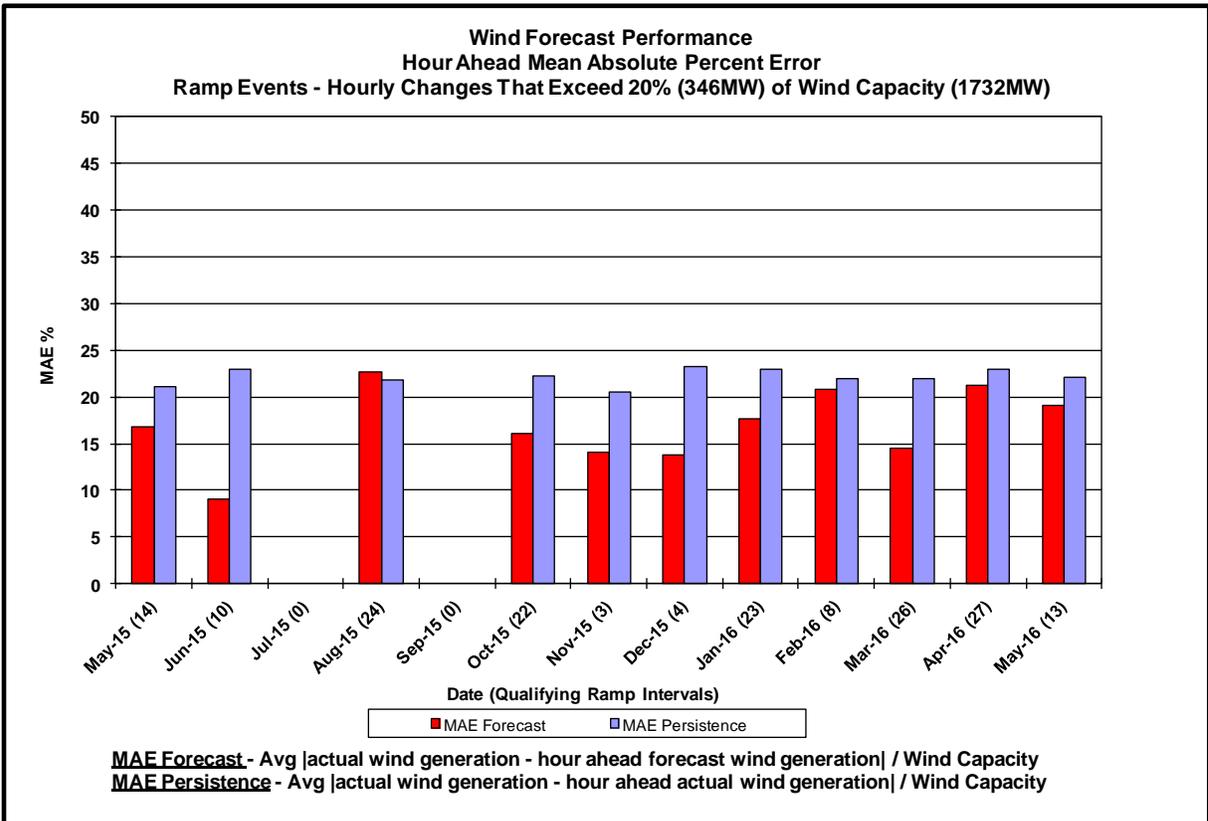
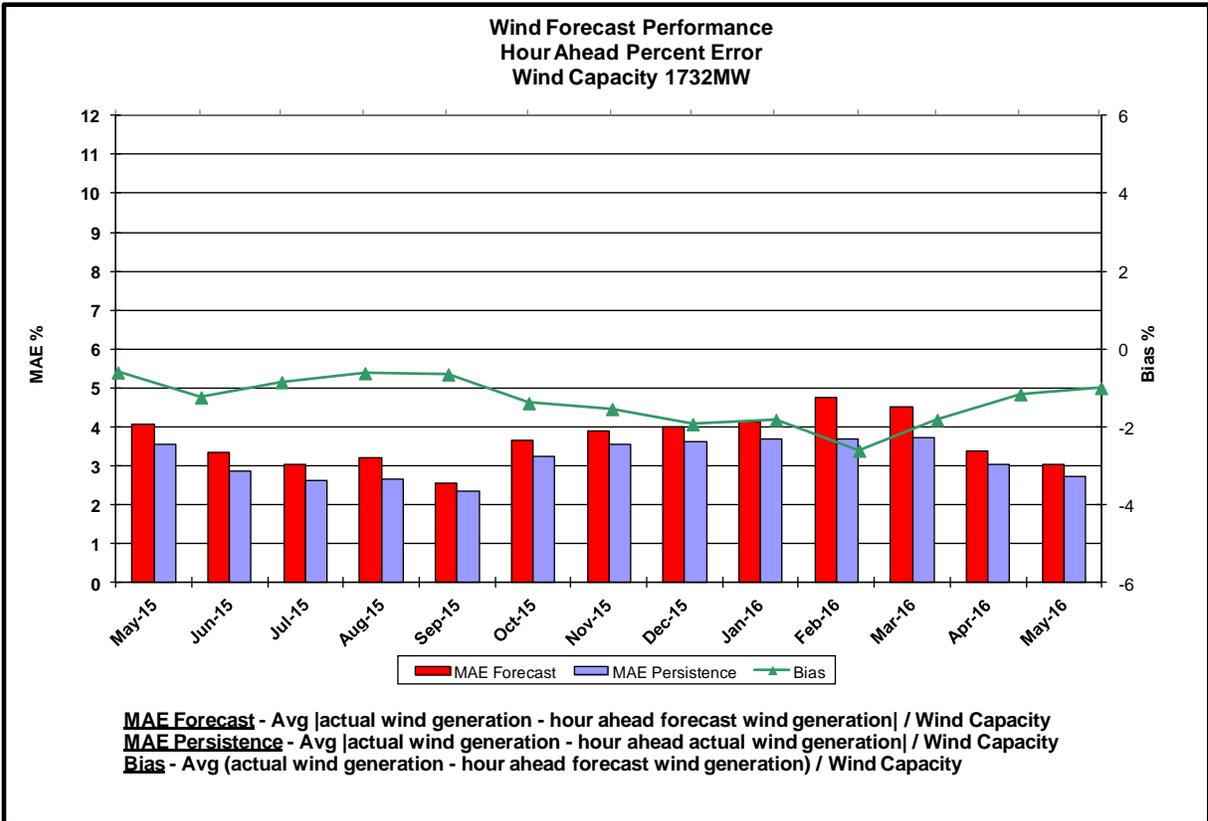
Reliability Performance Metrics

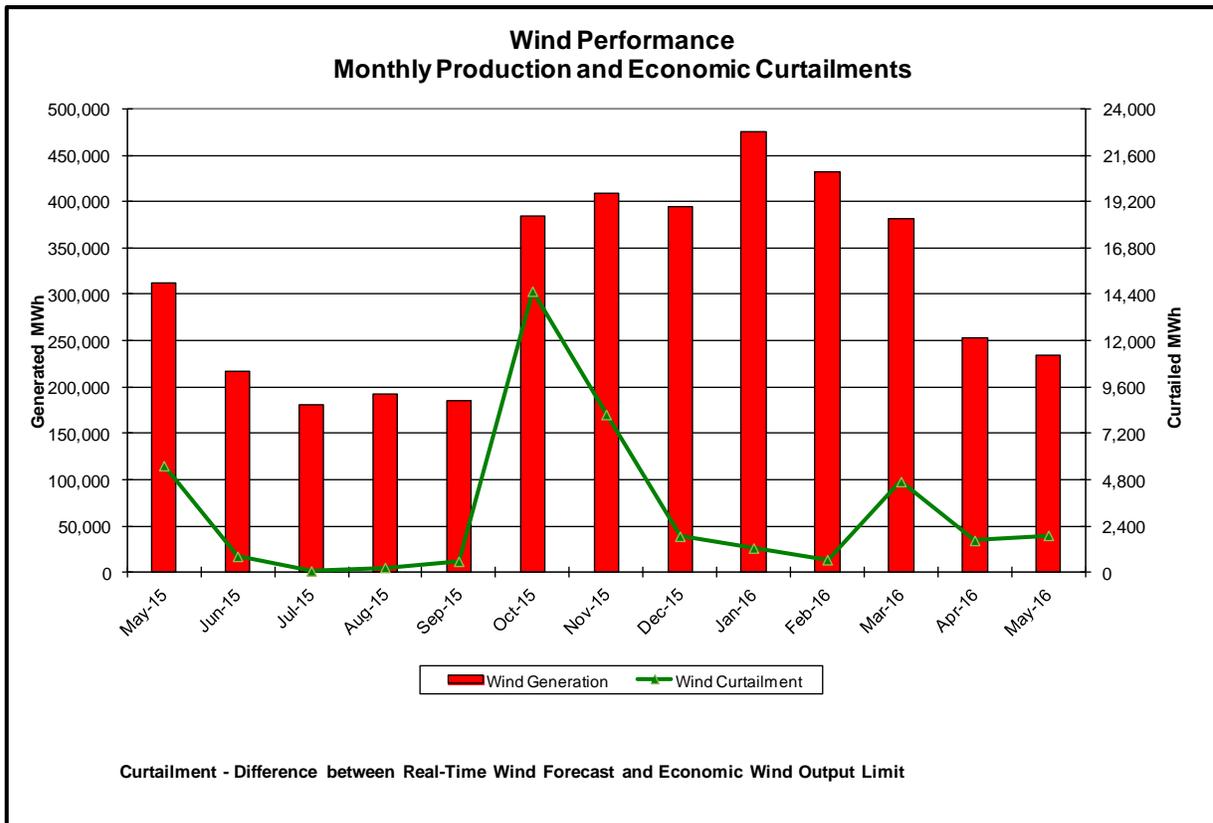
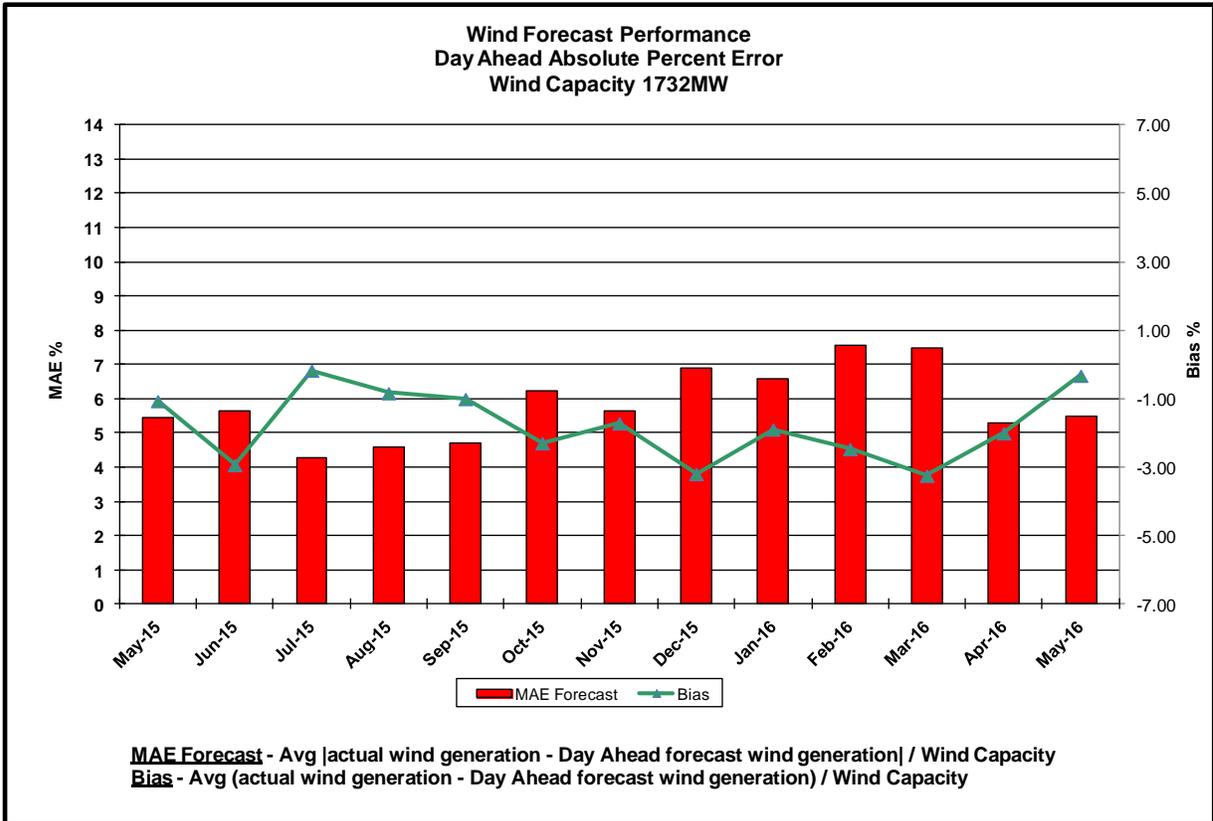


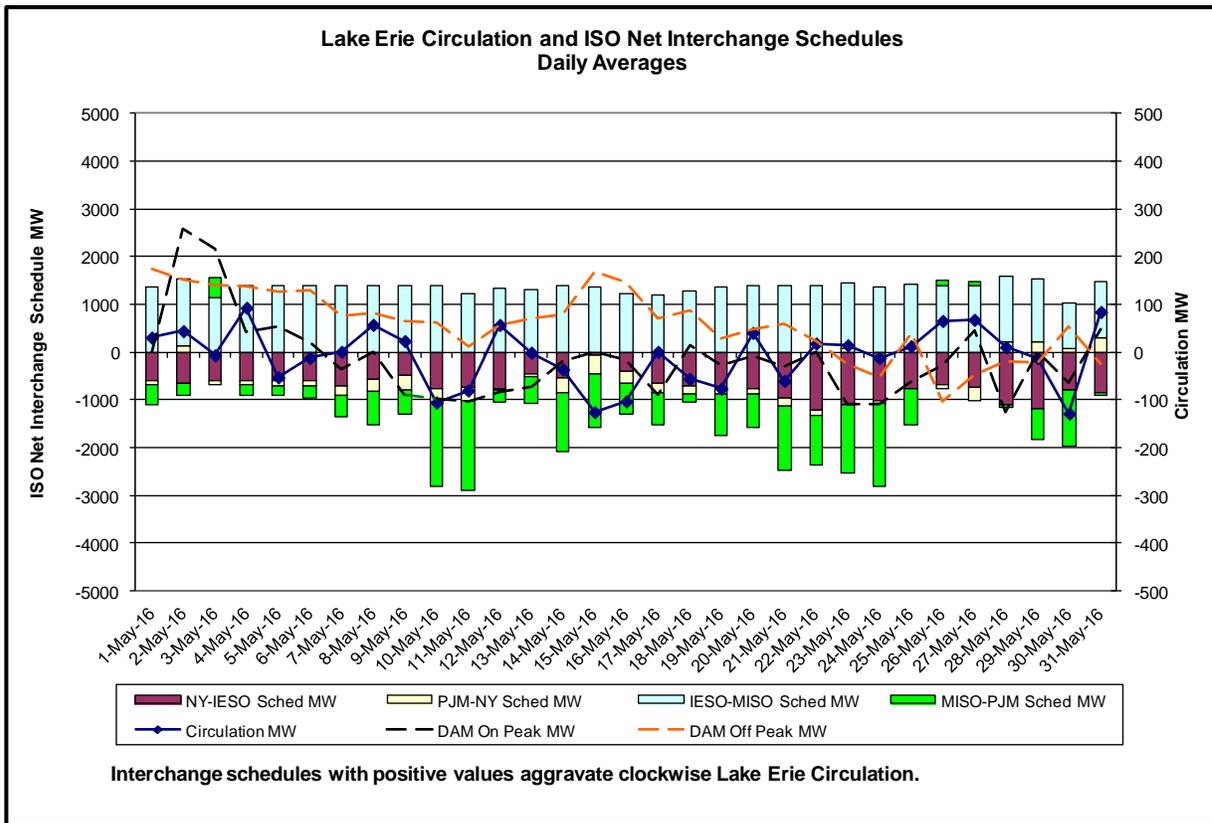
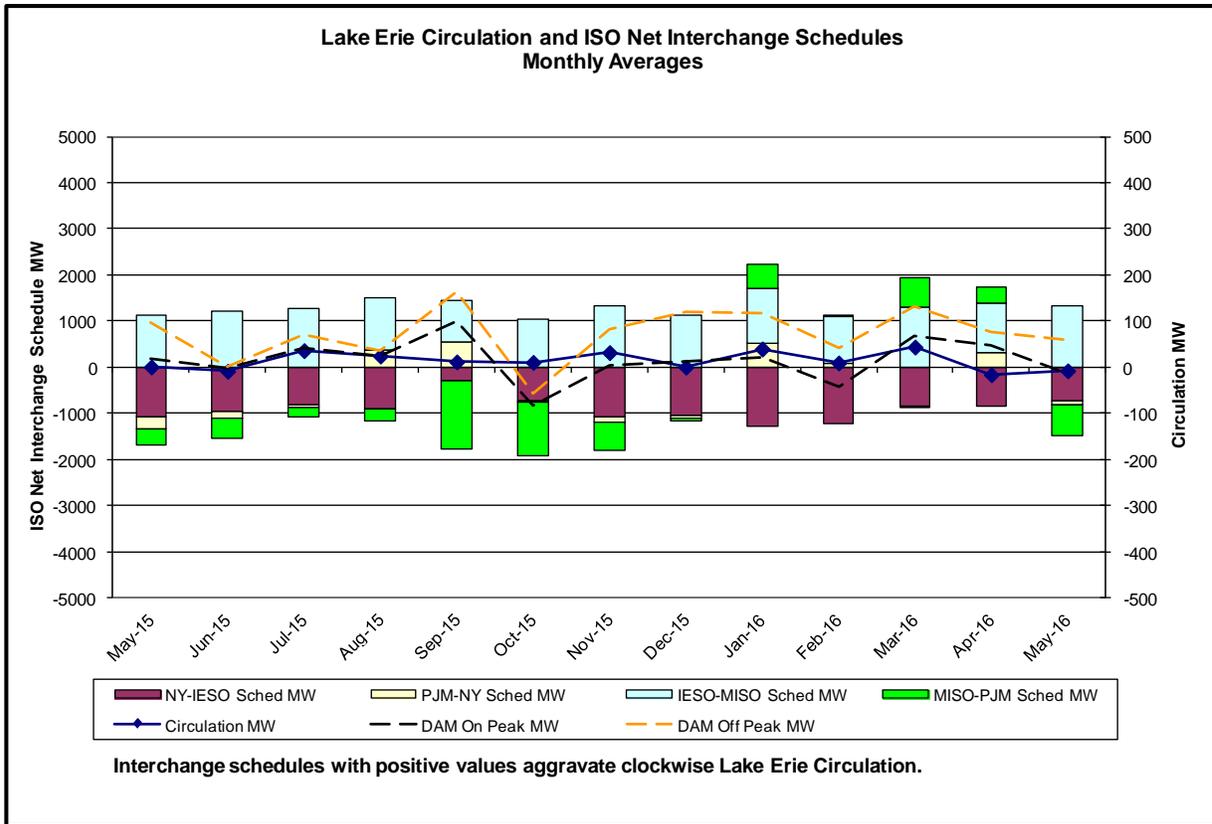




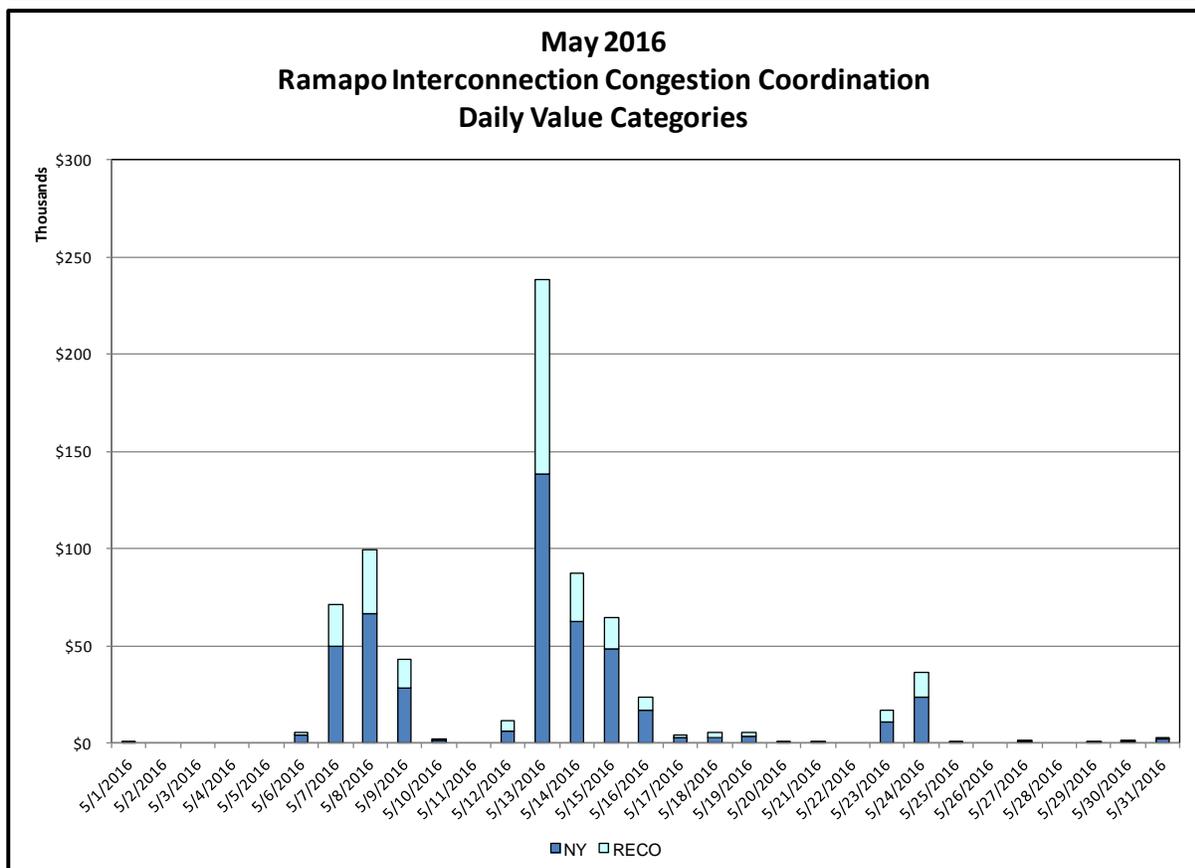
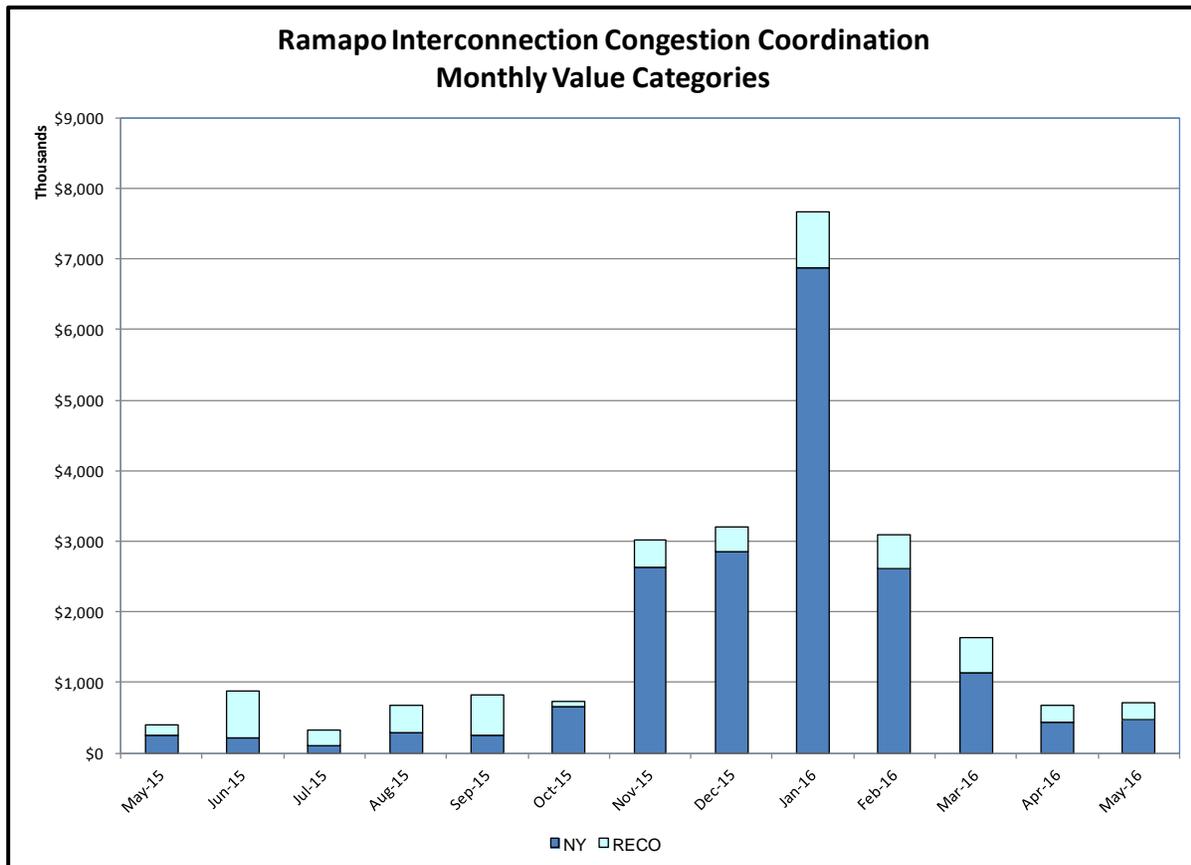






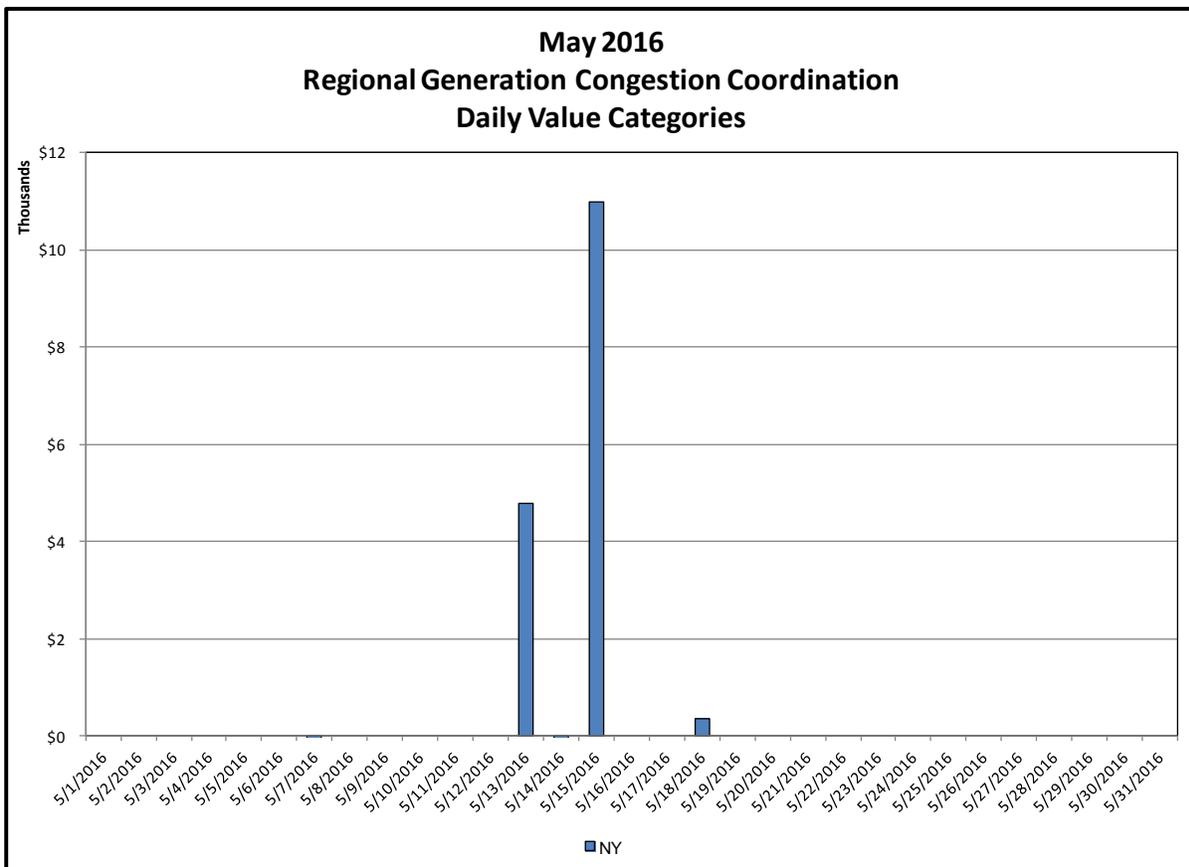
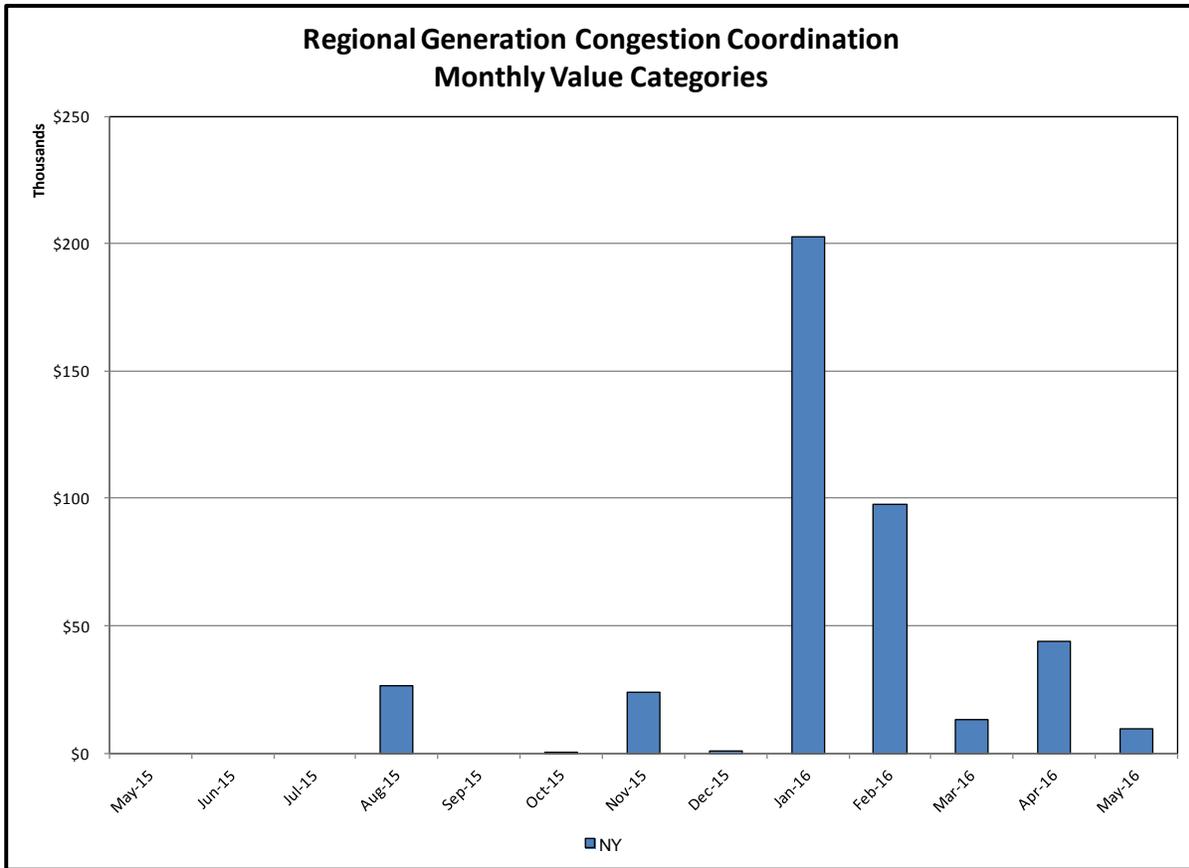


Broader Regional Market Performance Metrics



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.



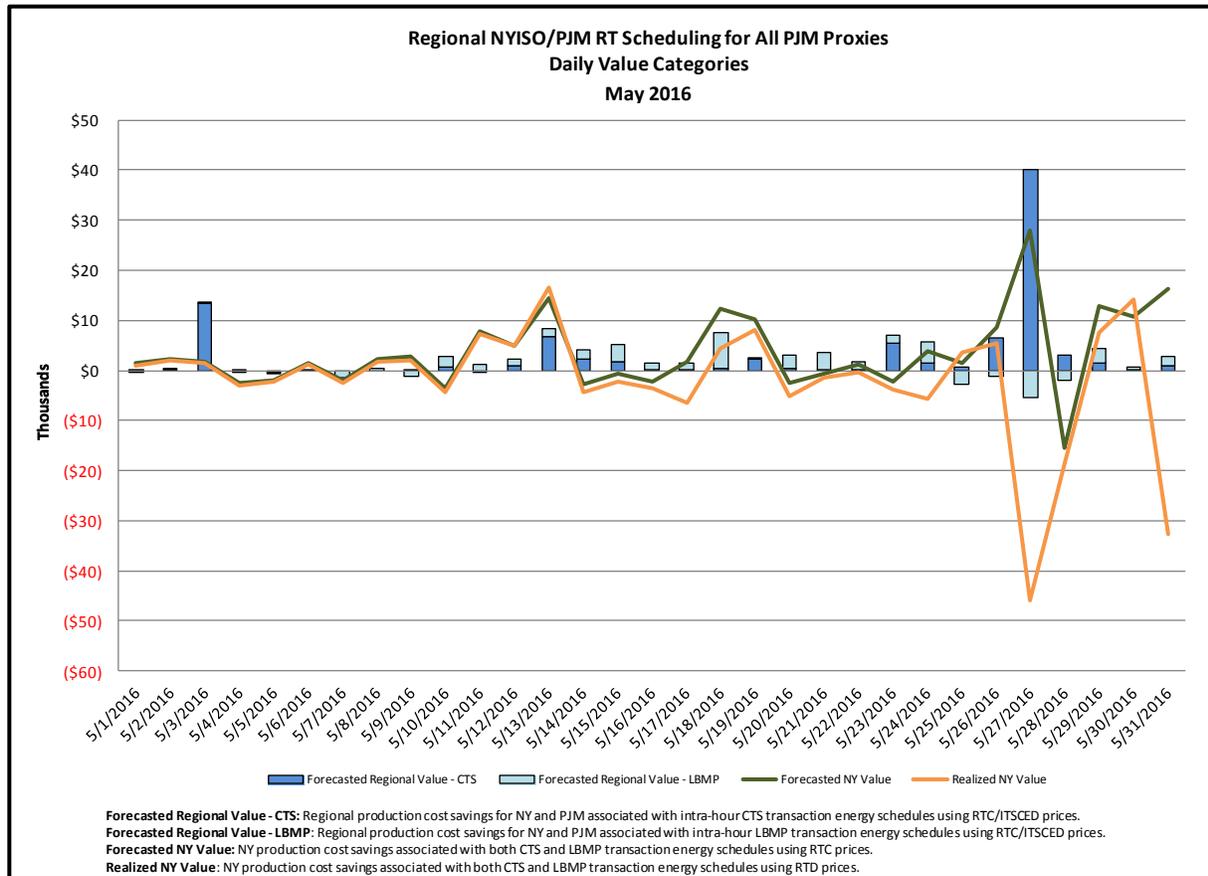
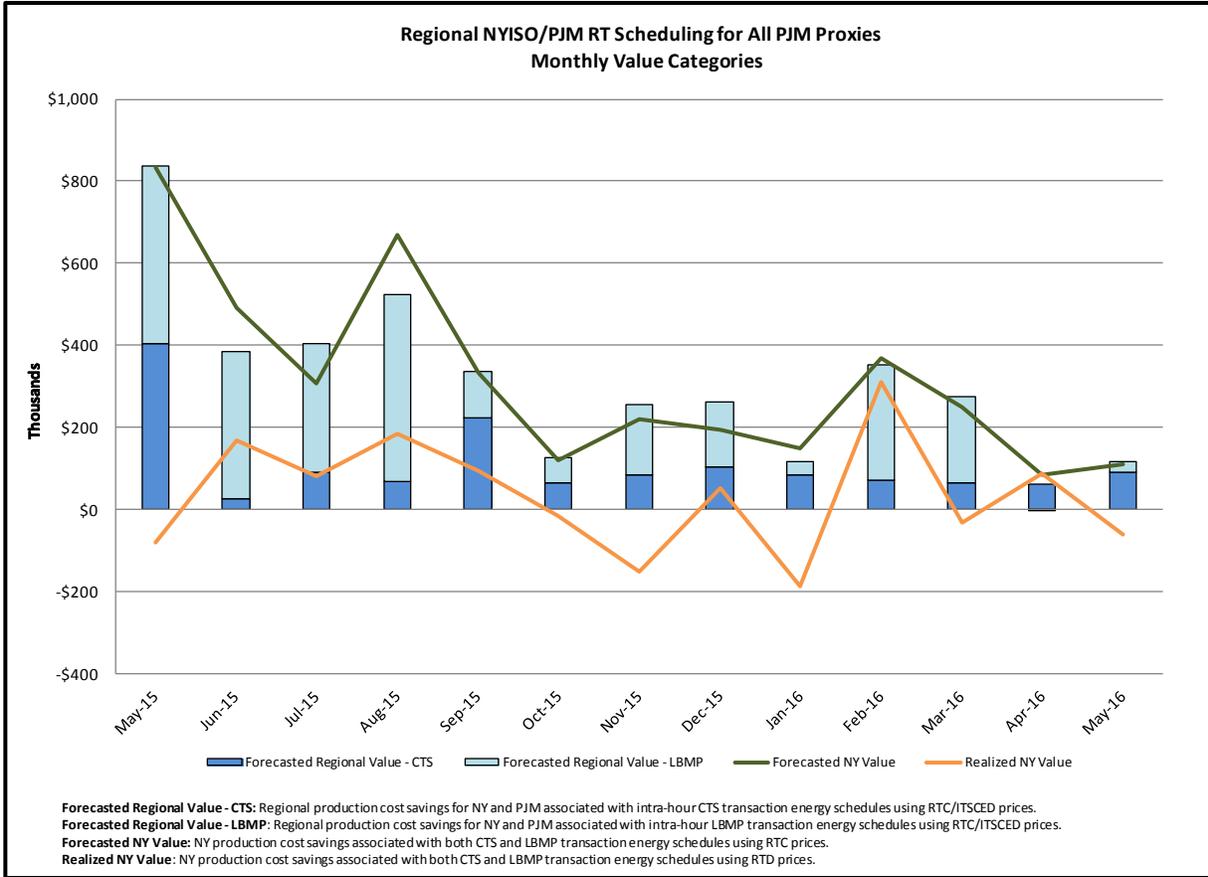
Regional Generation Congestion Coordination

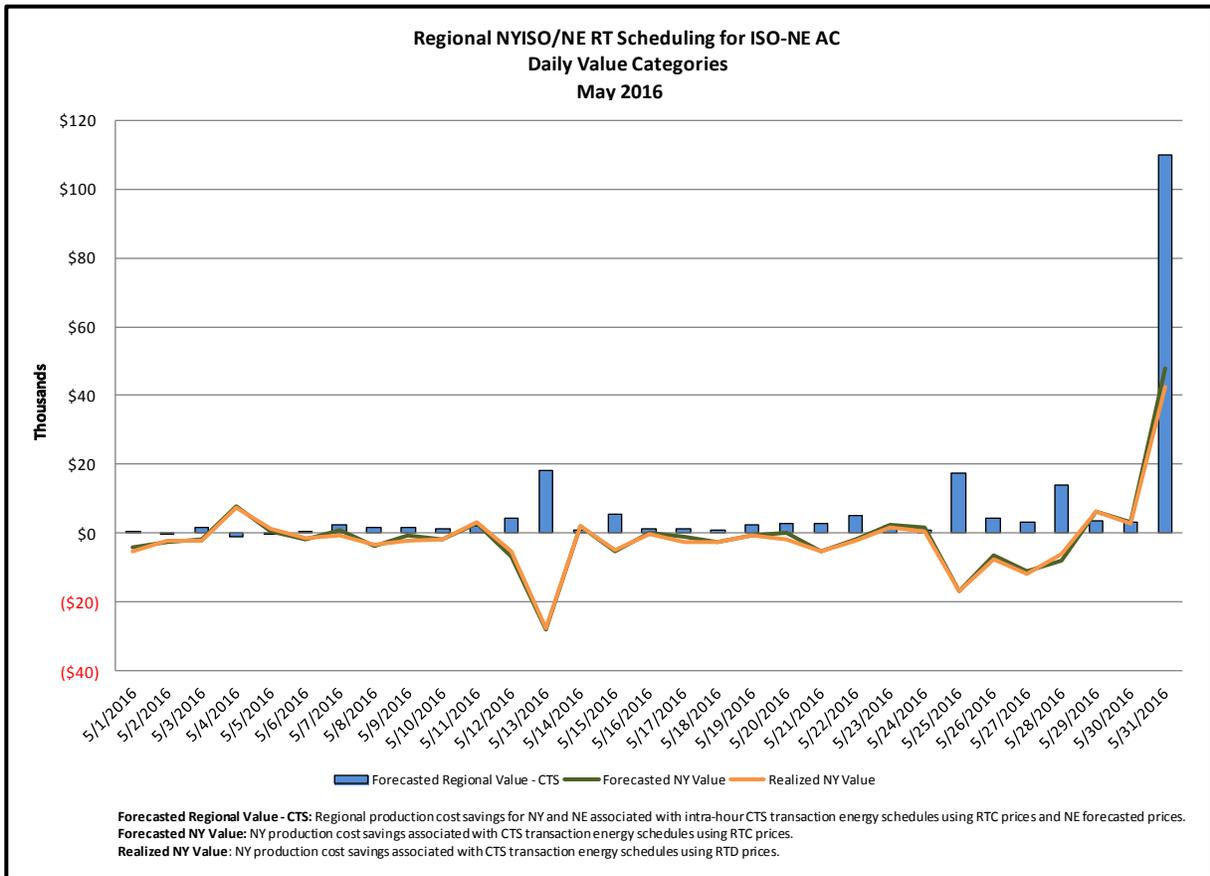
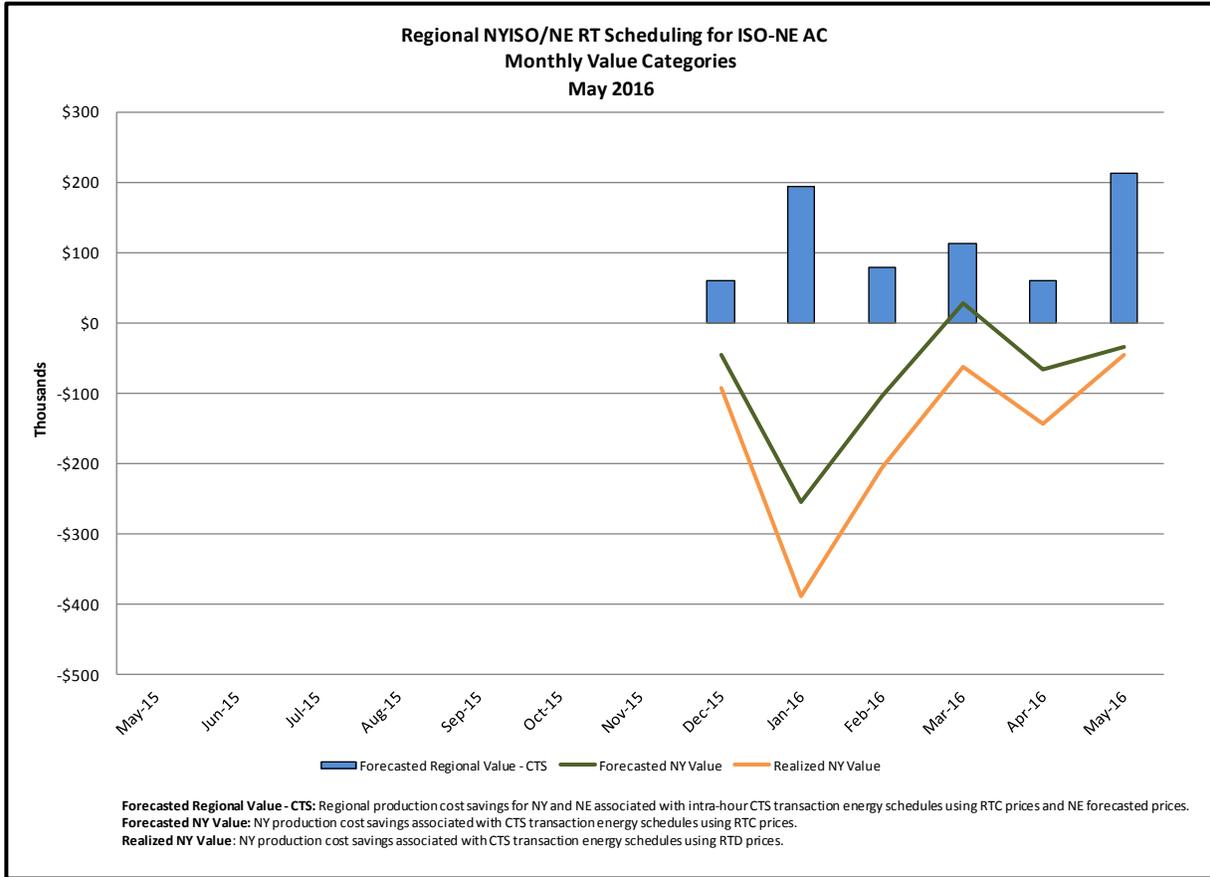
Category

NY

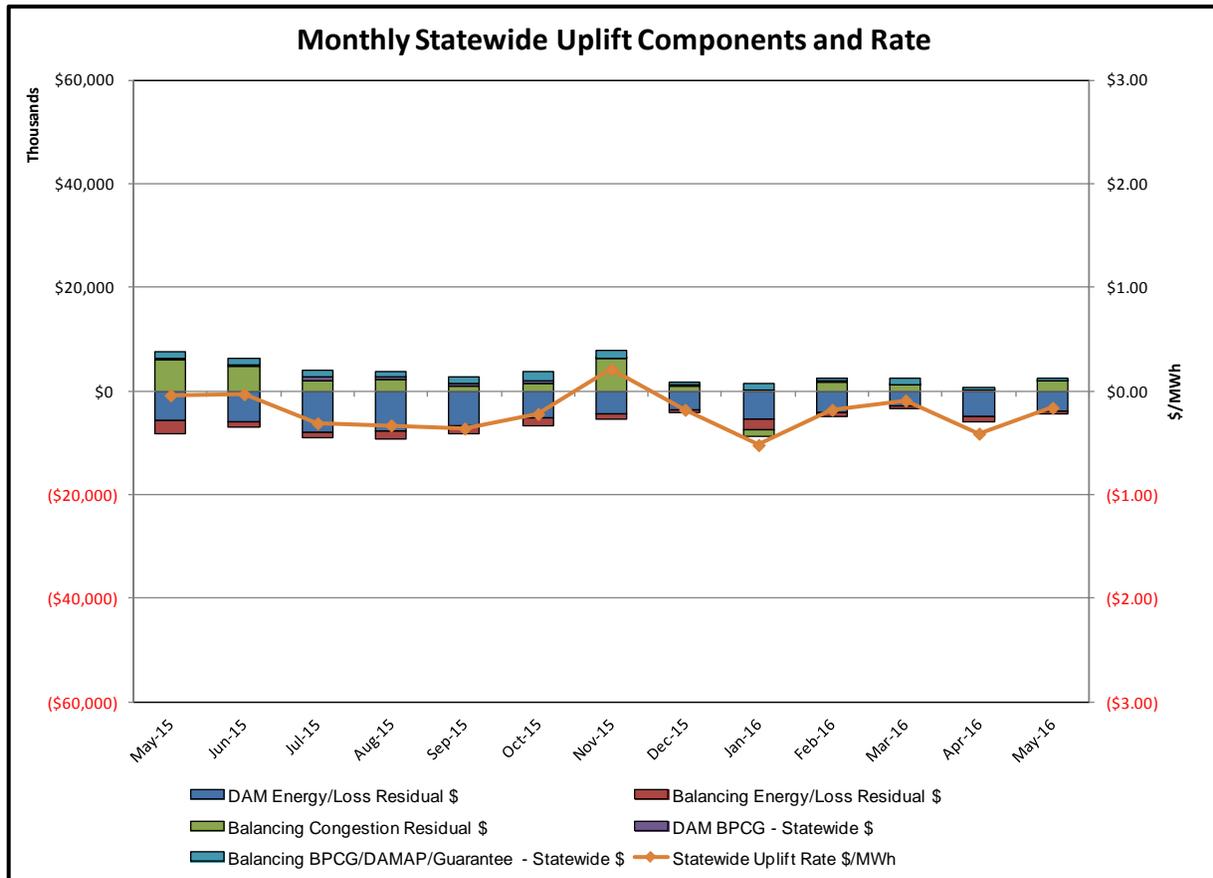
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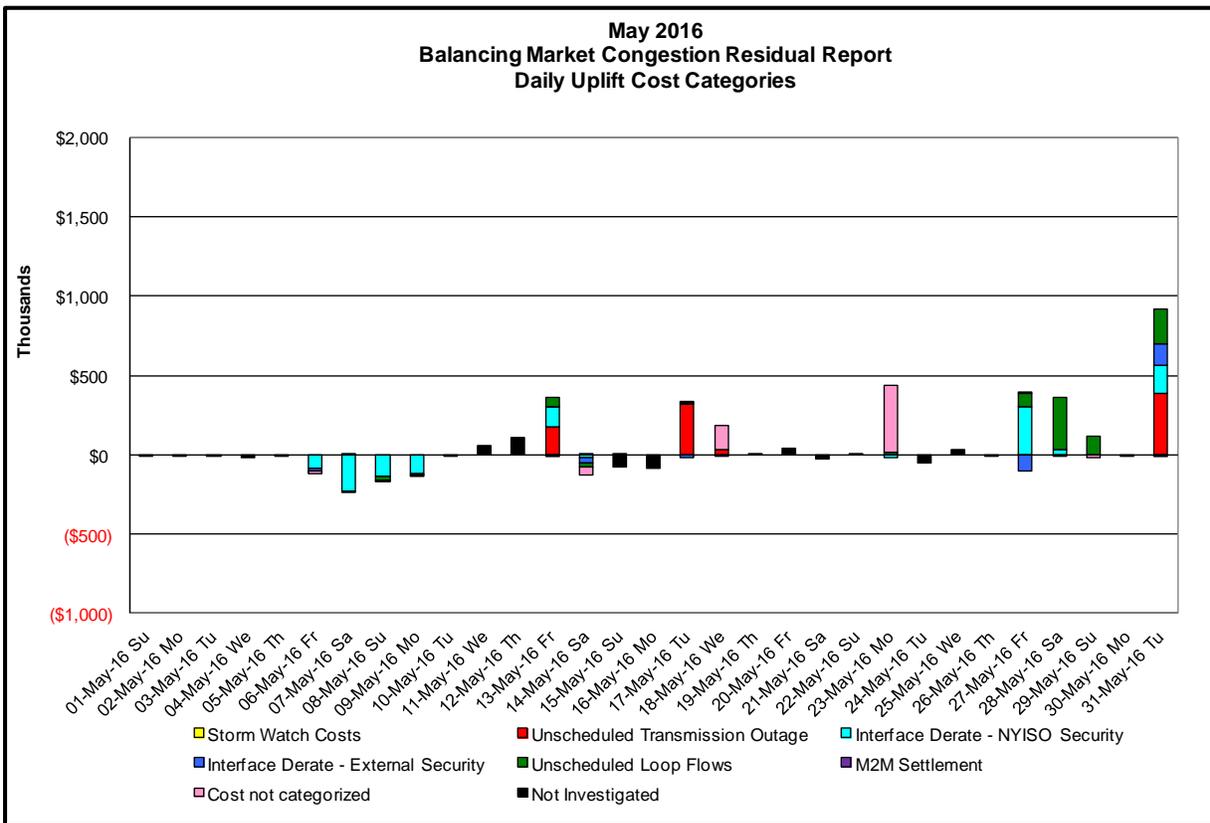
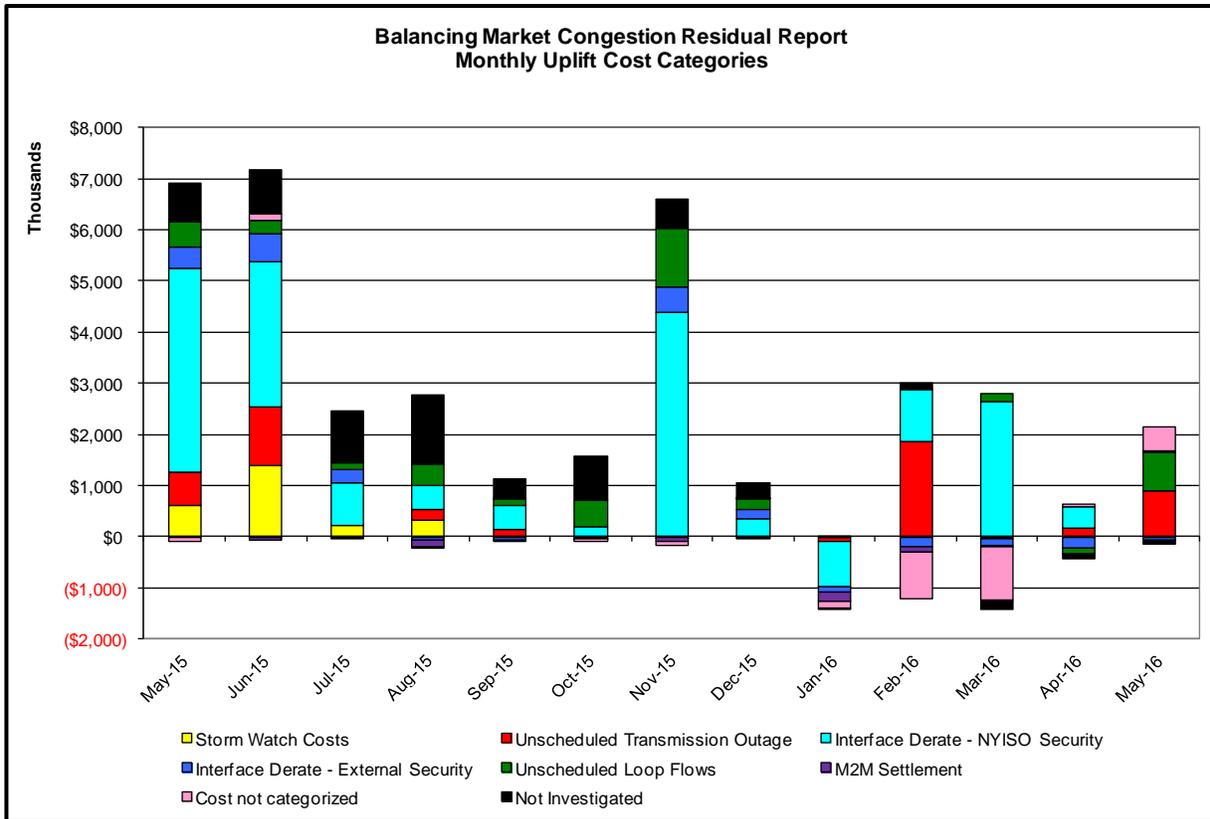
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization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





Market Performance Metrics





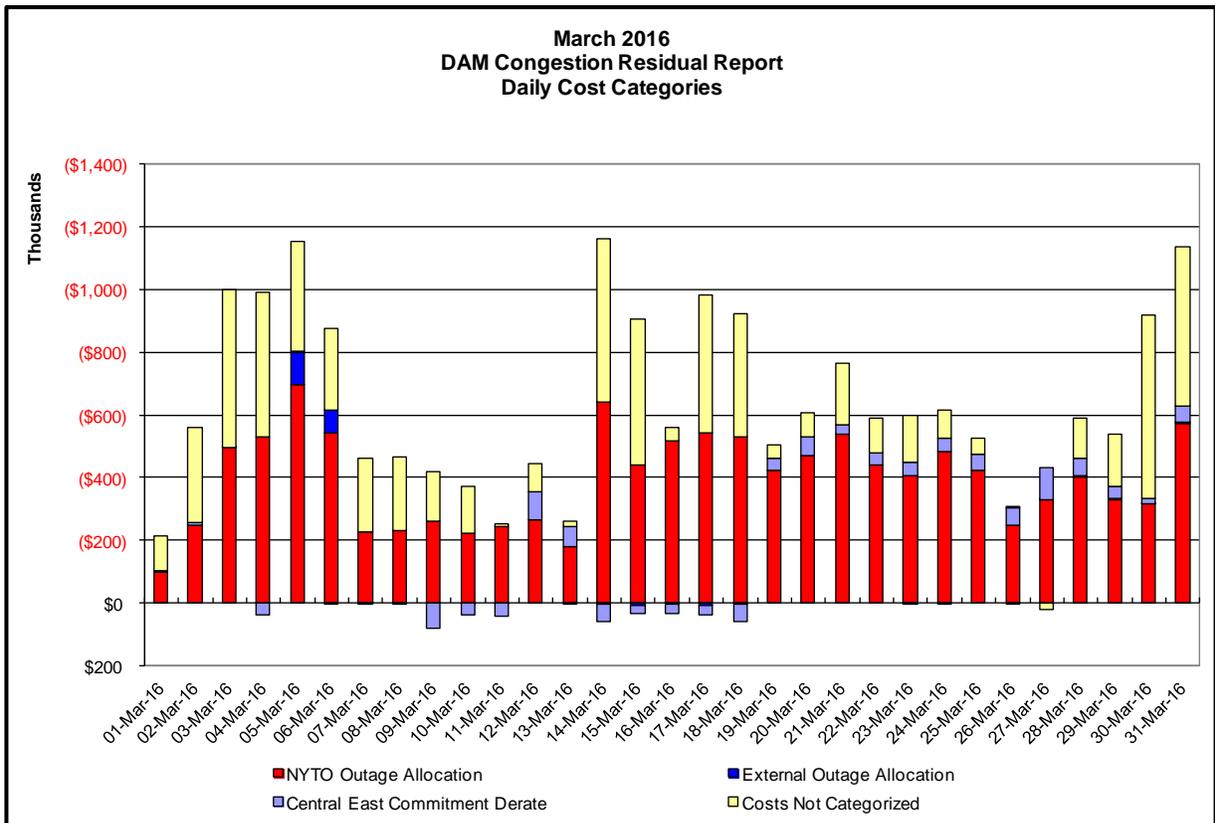
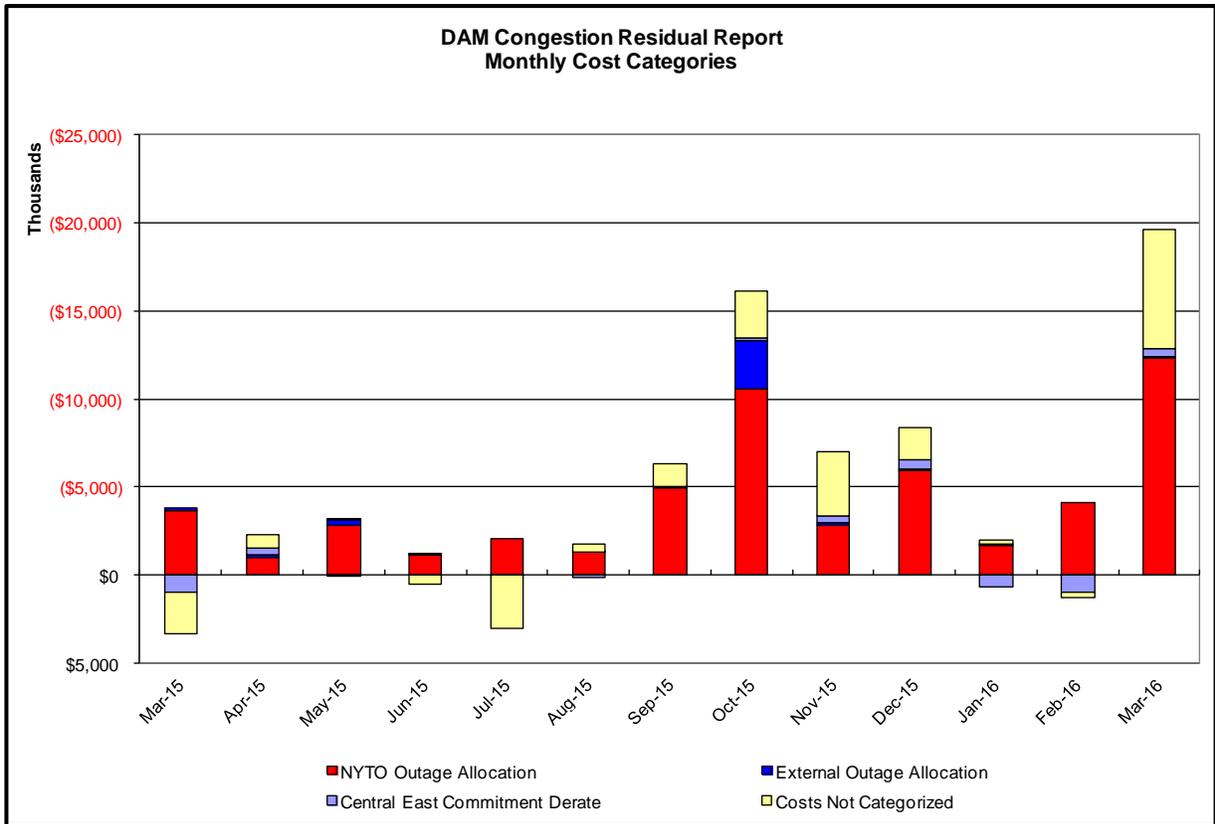
Day's investigated in May:6,7,8,9,13,14,17,18,23,27,28,29,31			
Event	Date (yyyymmdd)	Hours	Description
	5/6/2016	19,22,23	Uprate Central East
	5/6/2016	10,12,14-23	Uprate Dunwoodie-Pleasantville 345kv (#W89) for I/o \$MIDDLETP & TWR:PV F30&F31
	5/6/2016	10,12,18-23	Uprate Dunwoodie-Shore Road 345kv (#Y50) for I/o SCB:SPNBK(RNS2):Y49&M29&Y49_ST
	5/6/2016	16,17	IESO_AC-NY Scheduling Limit
	5/6/2016	23	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	5/7/2016	19,23	NYCA DNI Ramp Limit
	5/7/2016	0-23	Uprate Central East
	5/7/2016	6-10	Uprate Dunwoodie-Shore Road 345kv (#Y50) for I/o SCB:SPNBK(RNS2):Y49&M29&Y49_ST
	5/7/2016	22	NE_AC DNI Ramp Limit
	5/8/2016	1,7-23	Uprate Central East
	5/8/2016	10-13,19-21	Uprate Farragut-Hudson Avenue 138kv (#32077)
	5/8/2016	0	NYCA DNI Ramp Limit
	5/8/2016	8,9,14,22,23	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	5/9/2016	0-11,13-20	Uprate Central East
	5/9/2016	6,10	Uprate Farragut-Hudson Avenue 138kv (#32077)
	5/9/2016	12	IESO_AC-NY Scheduling Limit
	5/9/2016	1,2	NE_AC DNI Ramp Limit
	5/13/2016	1-19	Forced outage Marcy-Fraser Annex 345kv (#UCC2-41)
	5/13/2016	20,21	NYCA DNI Ramp Limit
	5/13/2016	0,20,21	Uprate Astoria Annex-East 13th Street 345kv (#Q35M)
	5/13/2016	0,23	Uprate Central East
	5/13/2016	1-19	Derate East 179th Street-Hell Gate East 138kv (#15053)
	5/13/2016	0,20,21	Uprate Farragut-Hudson Avenue 138kv (#32077)
	5/13/2016	20	NE_AC-NY Scheduling Limit
	5/13/2016	5-7,21	NE_AC DNI Ramp Limit
	5/13/2016	2,14-18	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	5/14/2016	0-5	Uprate Central East
	5/14/2016	4	Uprate Farragut-Hudson Avenue 138kv (#32077)
	5/14/2016	0,1	NE_AC DNI Ramp Limit
	5/14/2016	14-16,20,21	PJM_AC-NY Scheduling Limit
	5/14/2016	12,20-22	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	5/17/2016	5-8,11-14,18-20	Forced outage Sprainbrook-East Garden City 345kv (#Y49)
	5/17/2016	8,11-14,18	Extended outage Pleasantville-Dunwoodie 345kv (#W89)
	5/17/2016	15	Uprate Central East
	5/17/2016	10-12,14,15,20	NE_NNC1385-NY Scheduling Limit
	5/17/2016	14,18	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	5/18/2016	19-21	Forced outage Sprainbrook-East Garden City 345kv (#Y49)
	5/23/2016	3,15-18,23	Uprate Central East
	5/23/2016	19	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East, Niagara-Packard 230kv (#61)
	5/27/2016	13-15	NYCA DNI Ramp Limit
	5/27/2016	11	Derate East Garden City-Valley Stream 138kv (#462) for I/o SCB:NEWBRDG 1380 461 BK6
	5/27/2016	7	IESO_AC DNI Ramp Limit
	5/27/2016	14	PJM_AC-NY Scheduling Limit
	5/27/2016	14,16,17	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kv (#77)
	5/28/2016	10	Derate Astoria-Hell Gate East 138kv (#34052)
	5/28/2016	10,11	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kv (#77), Niagara-Packard 230kv (#61)
	5/29/2016	11	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kv (#77), Niagara-Packard 230kv (#61)
	5/31/2016	8-16	Forced outage Porter-Chases Lake 230kv (#11)
	5/31/2016	13-17,19-22	Extended outage Chateauguay DC Pole 1
	5/31/2016	15,16	NYCA DNI Ramp Limit
	5/31/2016	5	NE_AC-NY Scheduling Limit
	5/31/2016	5,15	NE_AC DNI Ramp Limit
	5/31/2016	5,15	PJM_AC DNI Ramp Limit
	5/31/2016	8,11,14,16	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kv (#77)
	5/31/2016	14,16	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kv (#61)
	5/31/2016	14	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Leeds-New Scotland 345kv (#93)

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 Lake Erie Loop Flows exceeding +/- 125 MW
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates	

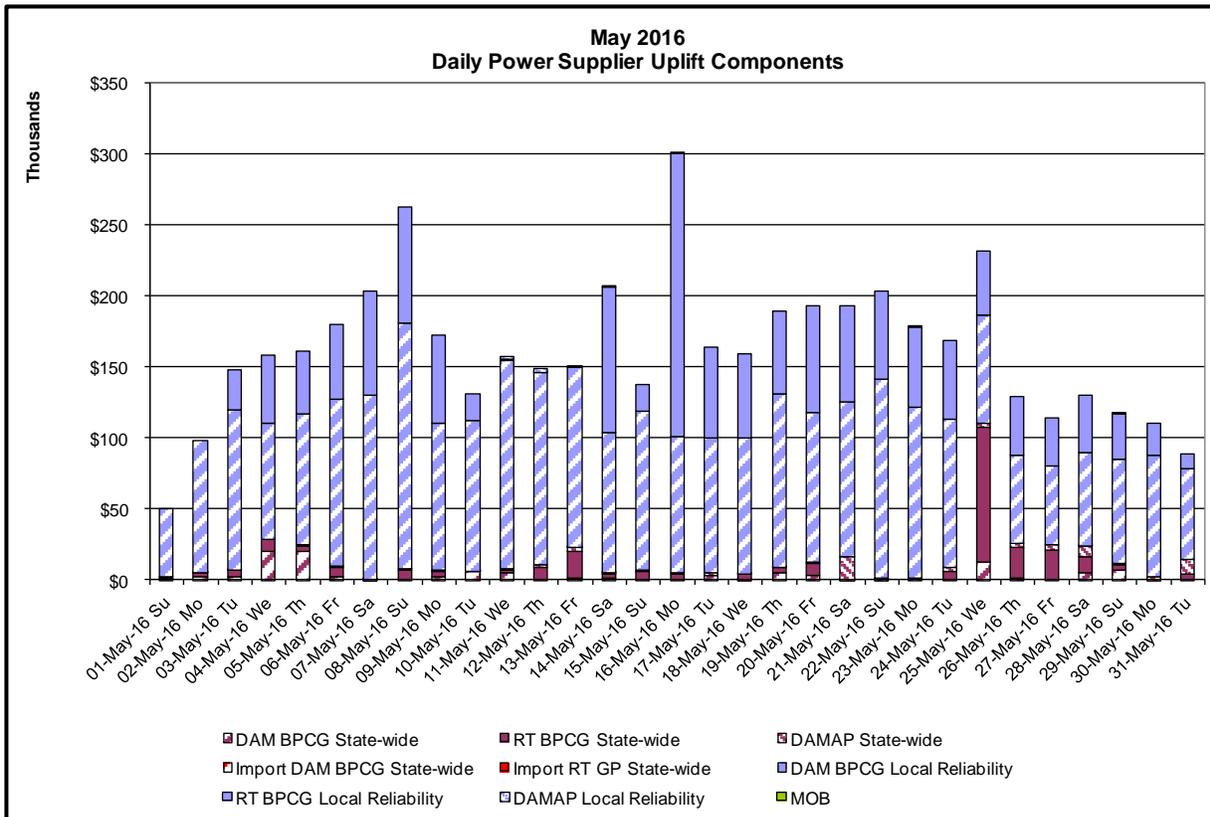
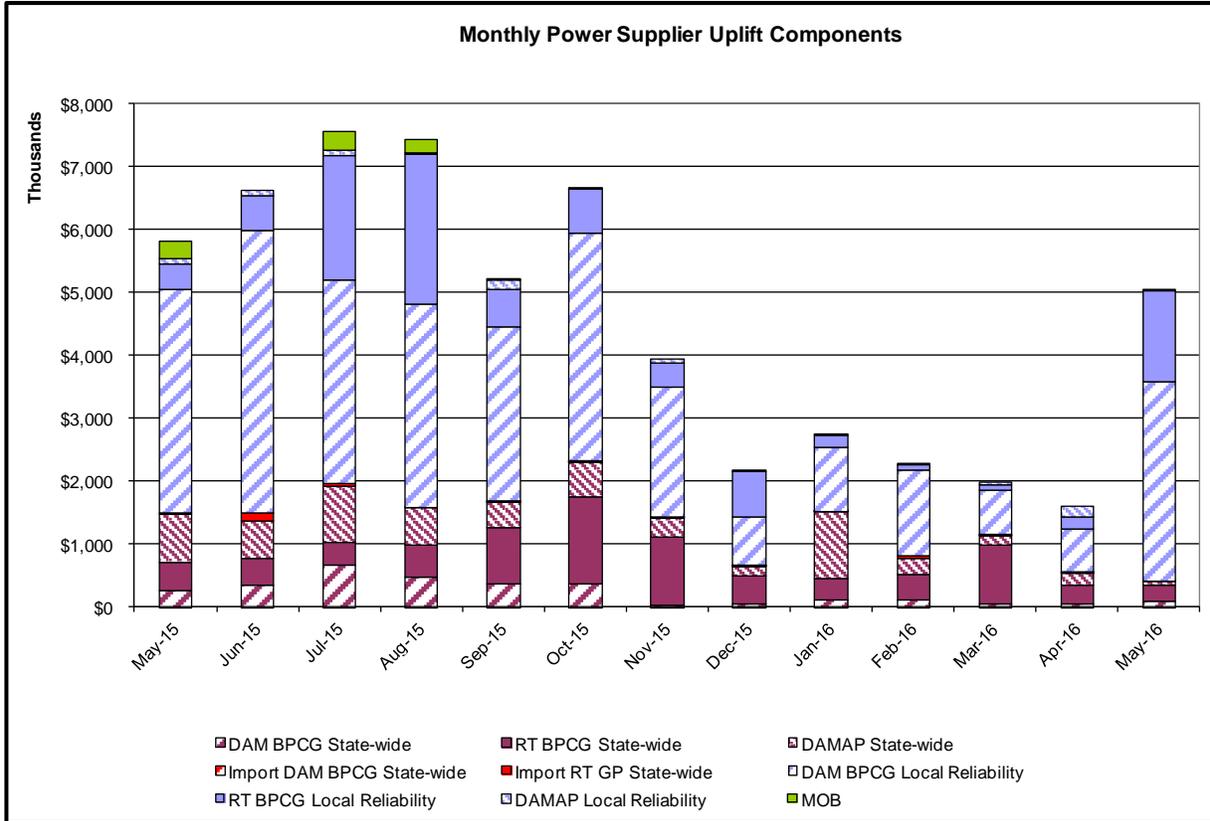
Monthly Balancing Market Congestion Report Assumptions/Notes

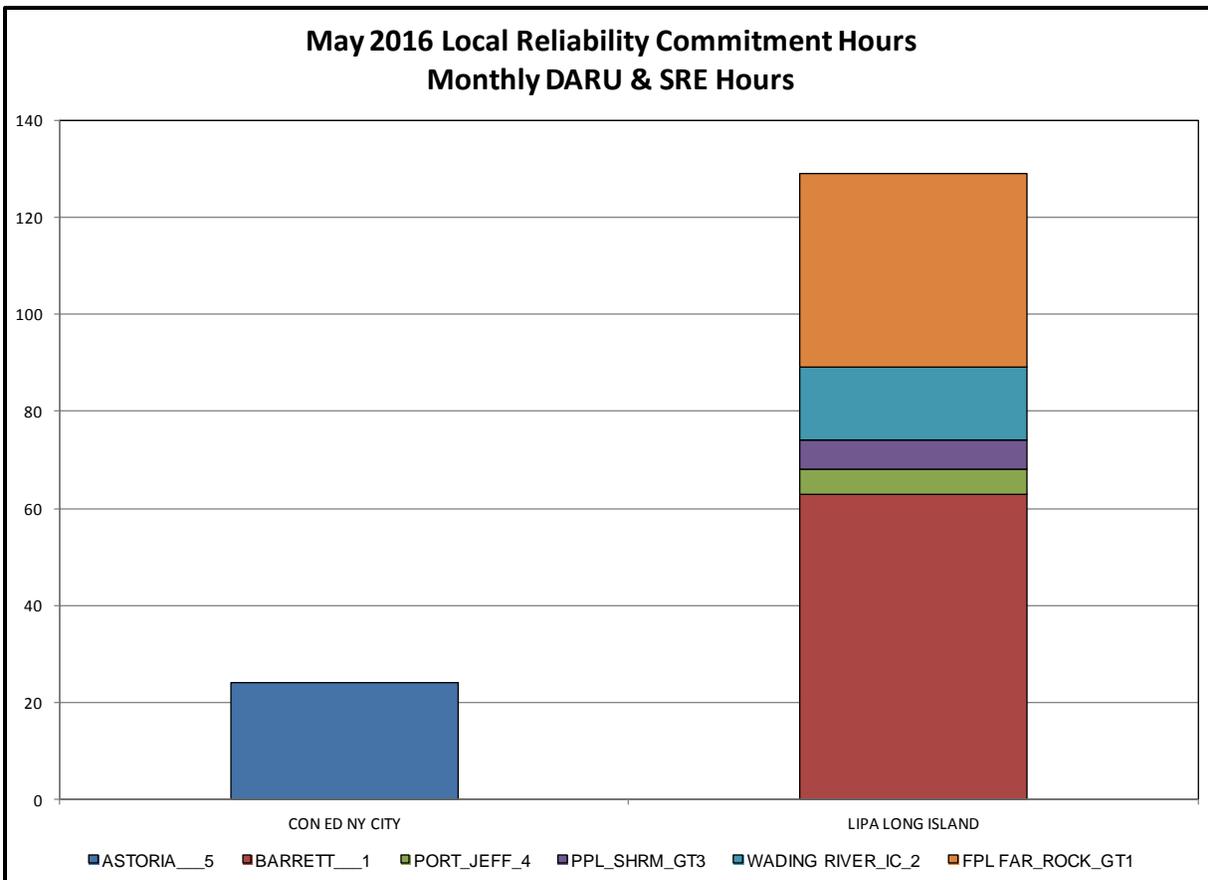
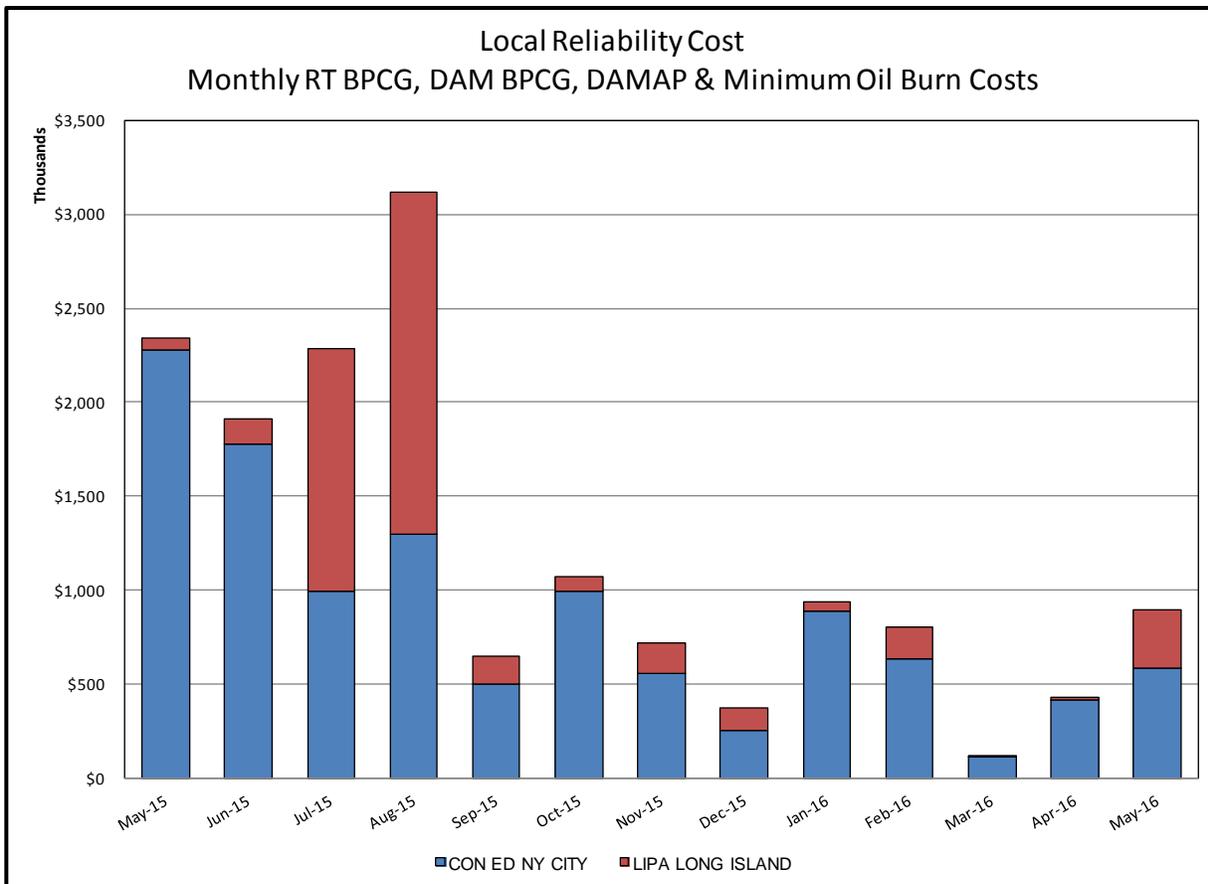
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

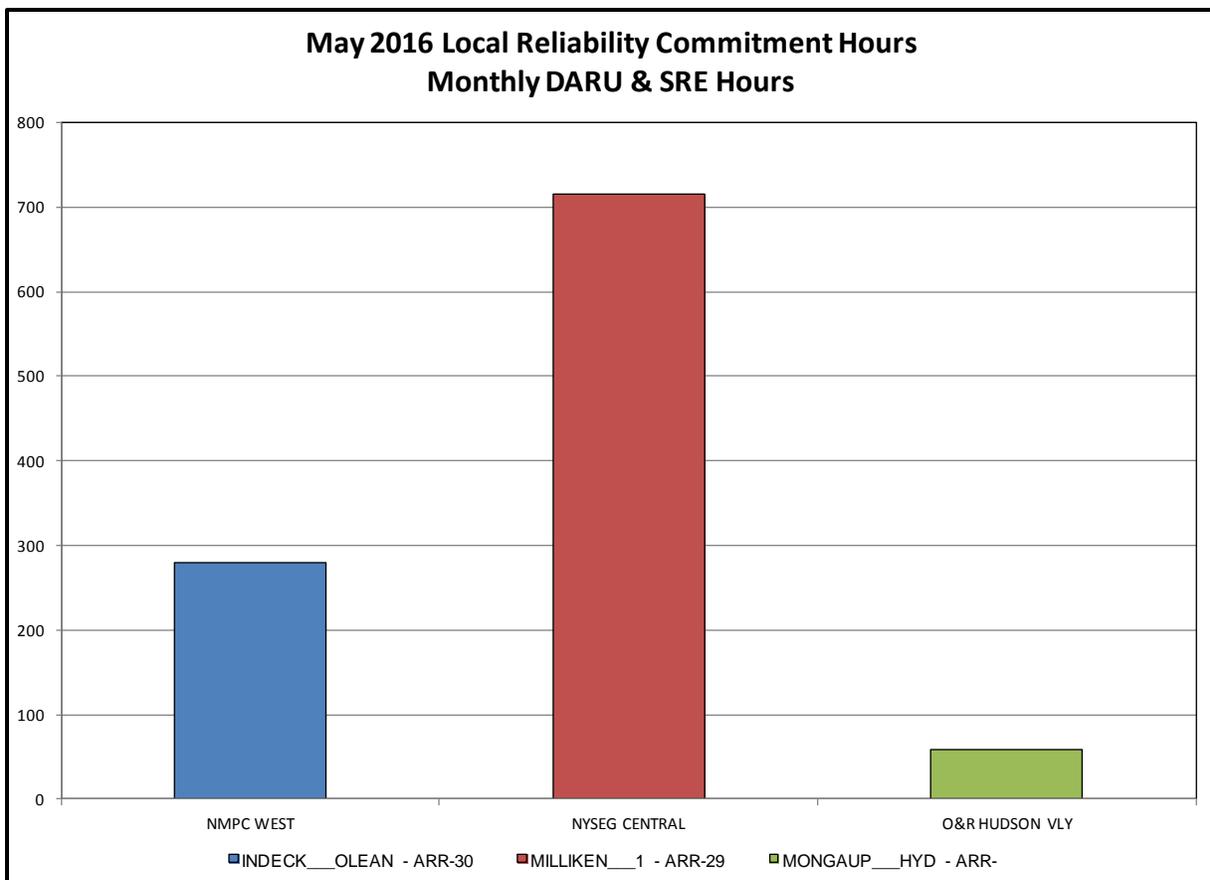
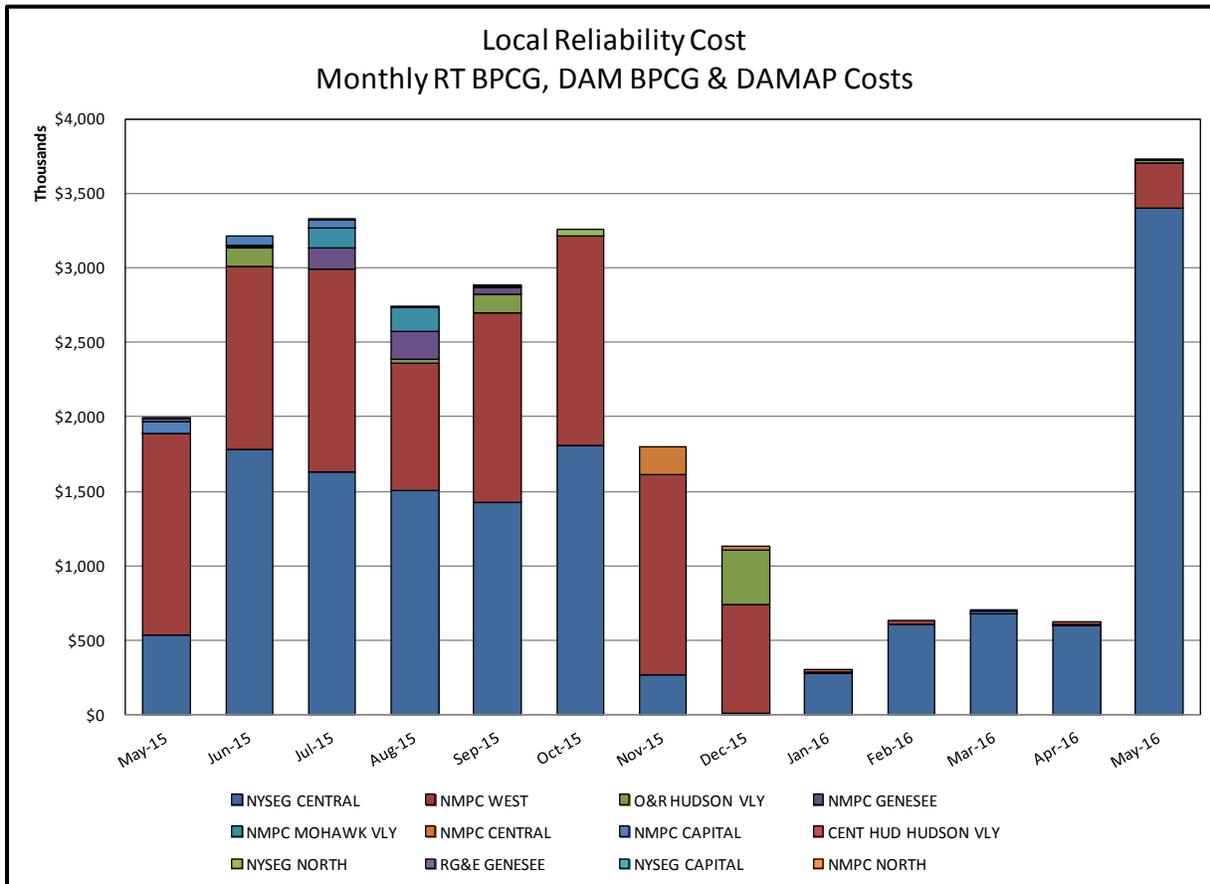


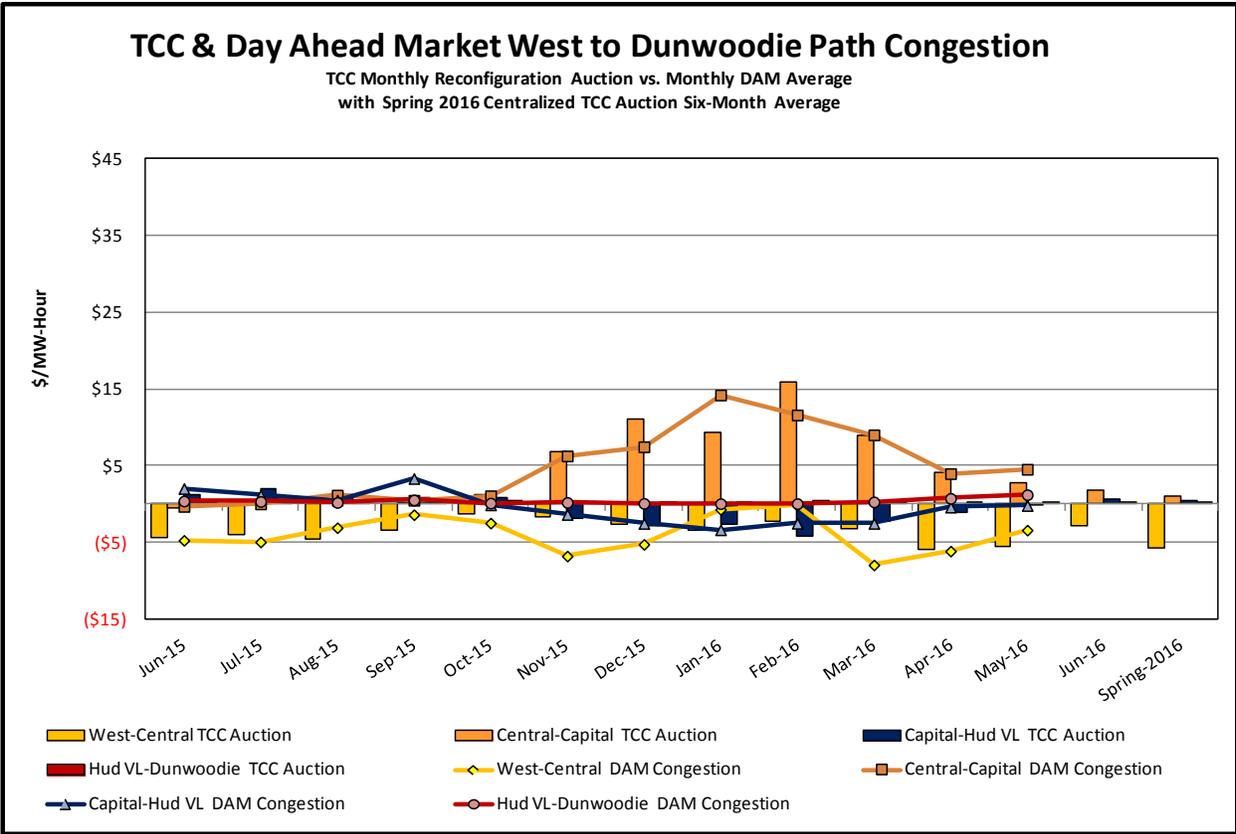
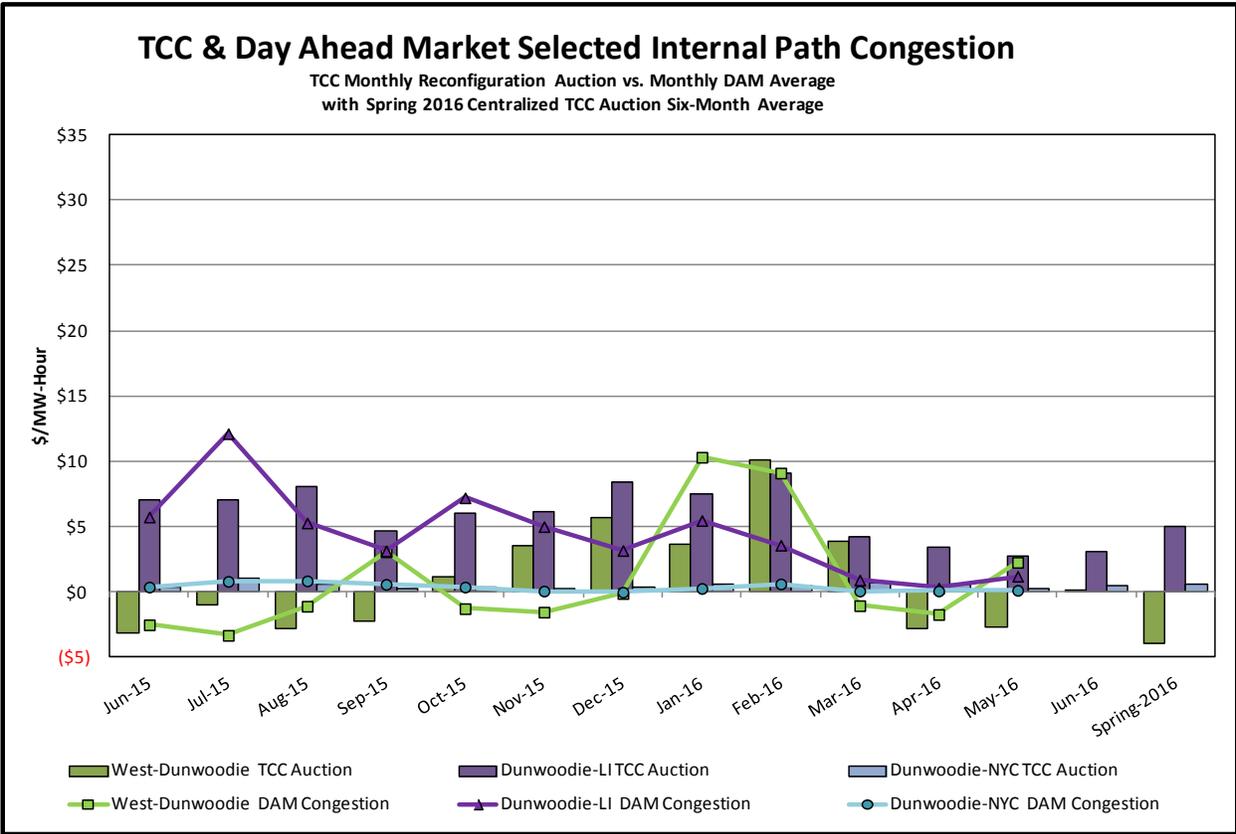
Day-Ahead Market Congestion Residual Categories

<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.	



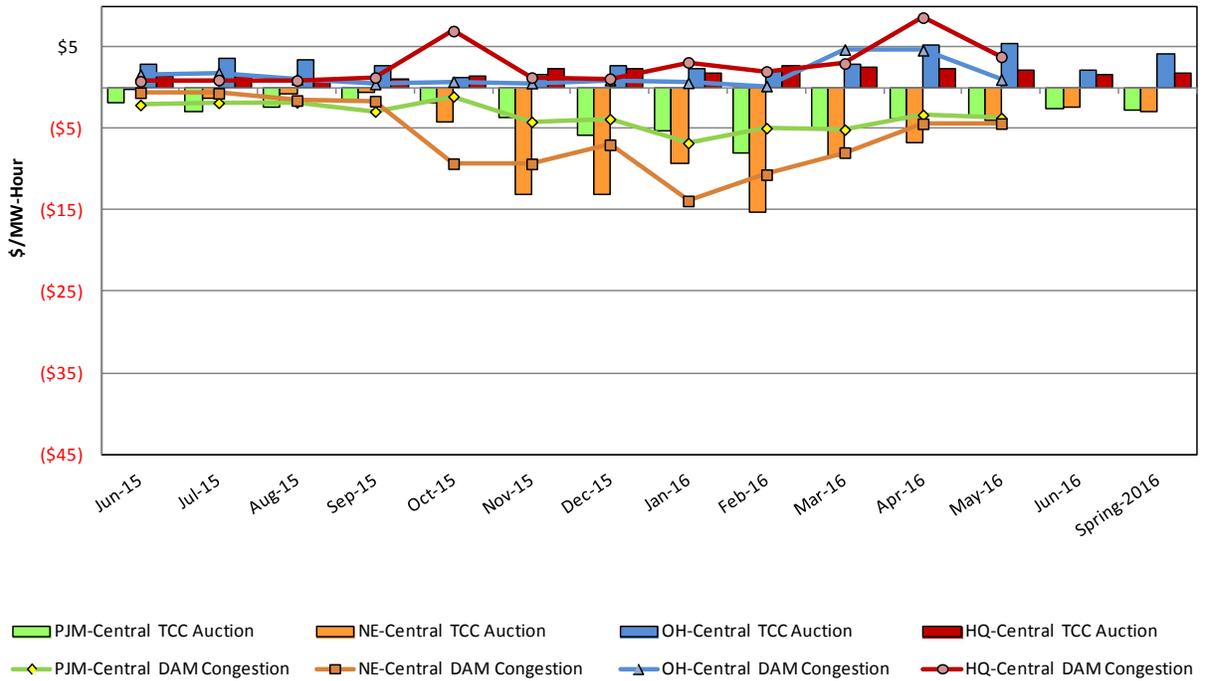


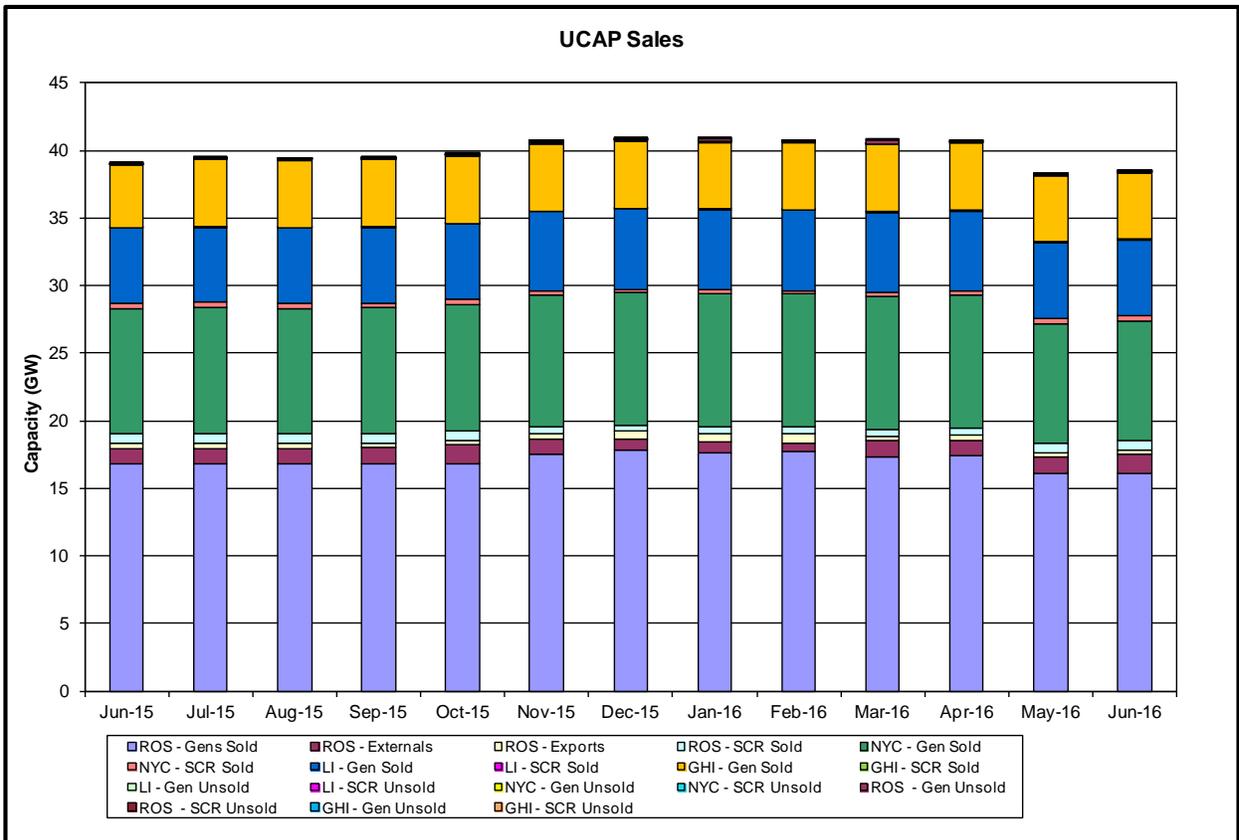
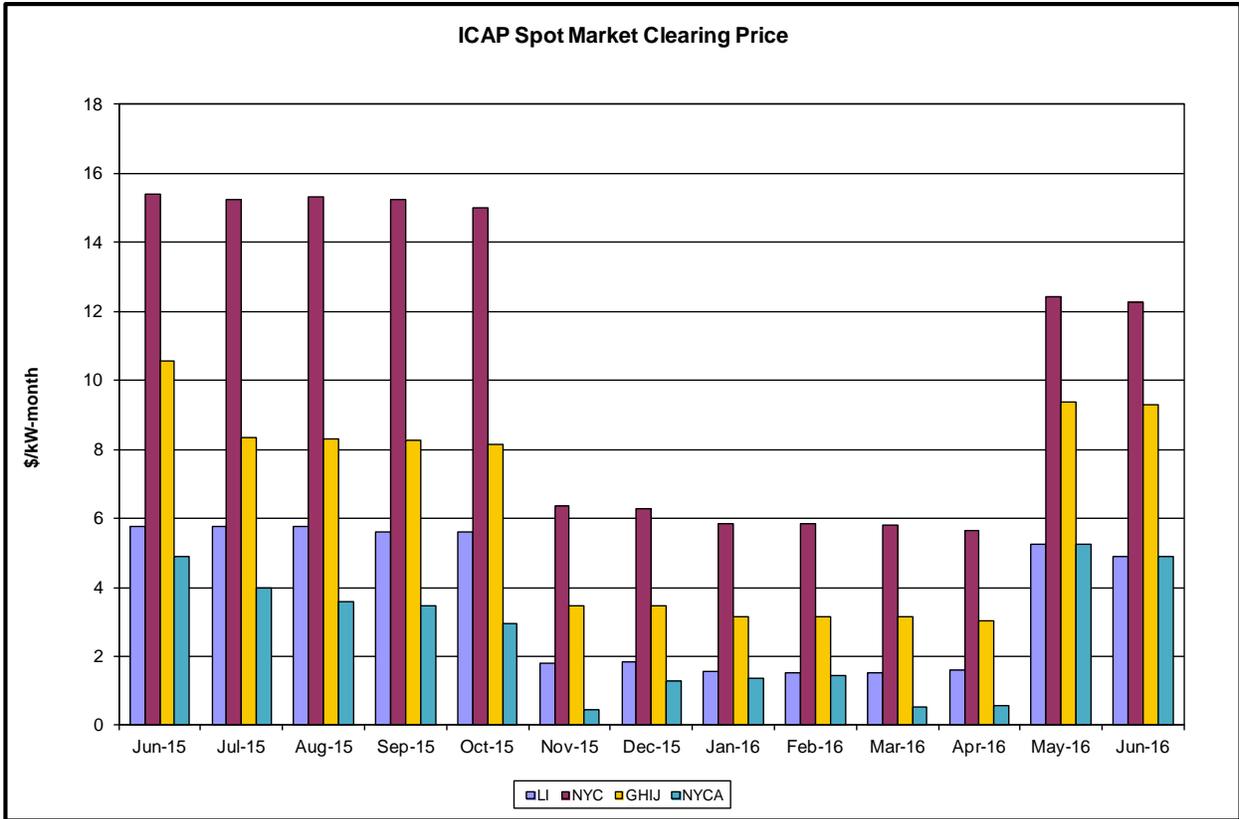




TCC & Day Ahead Market Selected External Path Congestion

TCC Monthly Reconfiguration Auction vs. Monthly DAM Average
with Spring 2016 Centralized TCC Auction Six-Month Average

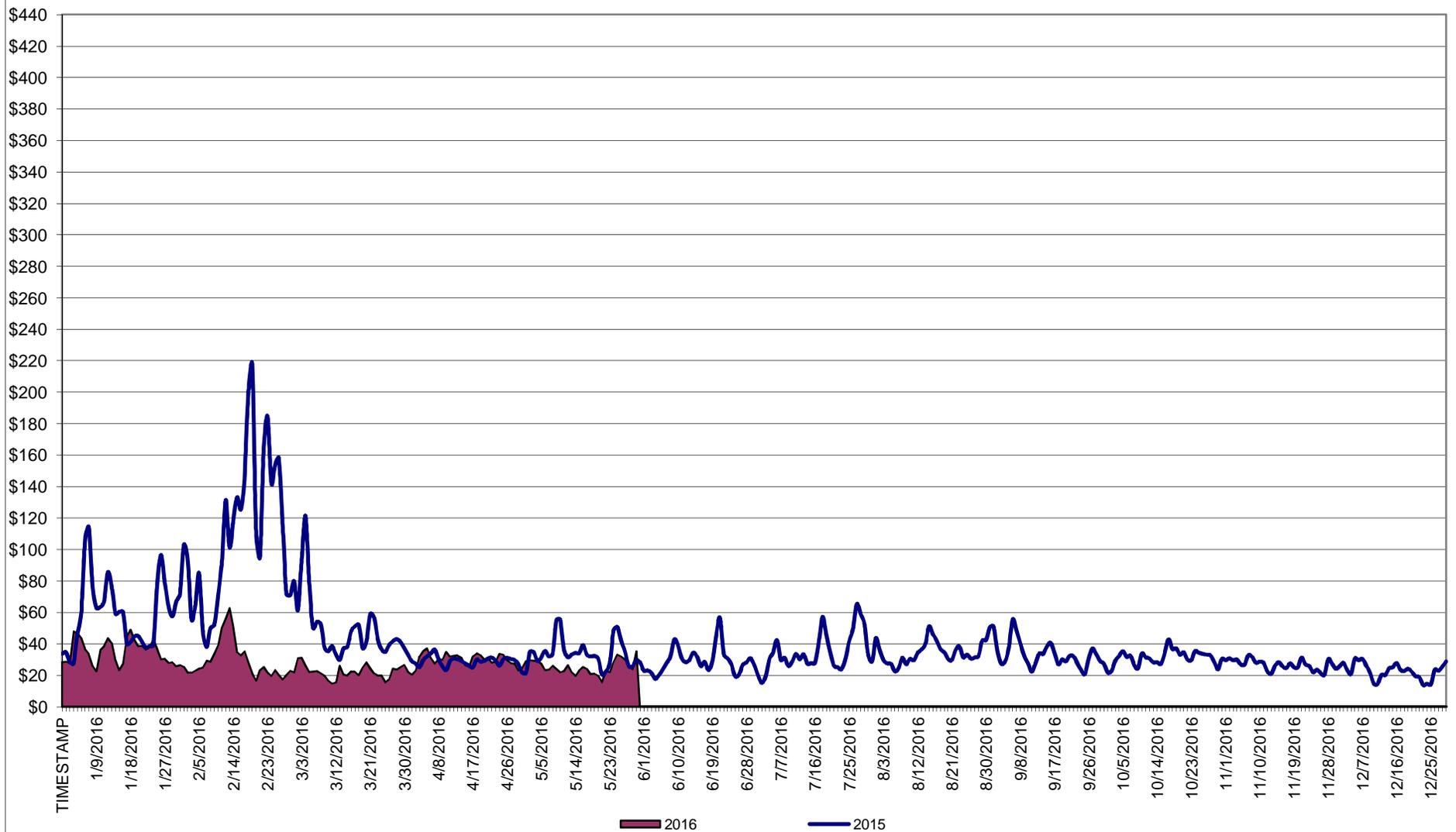




Market Performance Highlights for May 2016

- **LBMP for May is \$23.31/MWh; lower than \$27.96/MWh in April 2016 and lower than \$32.98/MWh in May 2015.**
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to April.
- **May 2016 average year-to-date monthly cost of \$29.85/MWh is a 51% decrease from \$60.96/MWh in May 2015.**
- **Average daily sendout is 397 GWh/day in May; higher than 385 GWh/day in April 2016 and lower than 409 GWh/day in May 2015.**
- **Natural gas prices were lower and distillate prices were higher compared to the previous month.**
 - Natural Gas (Transco Z6 NY) was \$1.58/MMBtu, down from \$1.62/MMBtu in April.
 - Natural gas prices are down 40% year-over-year
 - Jet Kerosene Gulf Coast was \$9.66/MMBtu, up from \$8.46/MMBtu in April.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$10.17/MMBtu, up from \$8.89/MMBtu in April.
 - Distillate prices are down 28% year-over-year
- **Uplift per MWh is higher compared to the previous month.**
 - Uplift (not including NYISO cost of operations) is \$0.19/MWh; higher than (\$0.34)/MWh in April.
 - The Local Reliability Share is \$0.35/MWh, higher than \$0.07 in April.
 - The Statewide Share is (\$0.16)/MWh, higher than (\$0.41)/MWh in April.
 - TSA \$ per NYC MWh is \$0.00/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than April.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
 2015 Annual Average \$44.10/MWh
 May 2015 YTD Average \$60.96/MWh
 May 2016 YTD Average \$29.85/MWh



* Excludes ICAP payments.

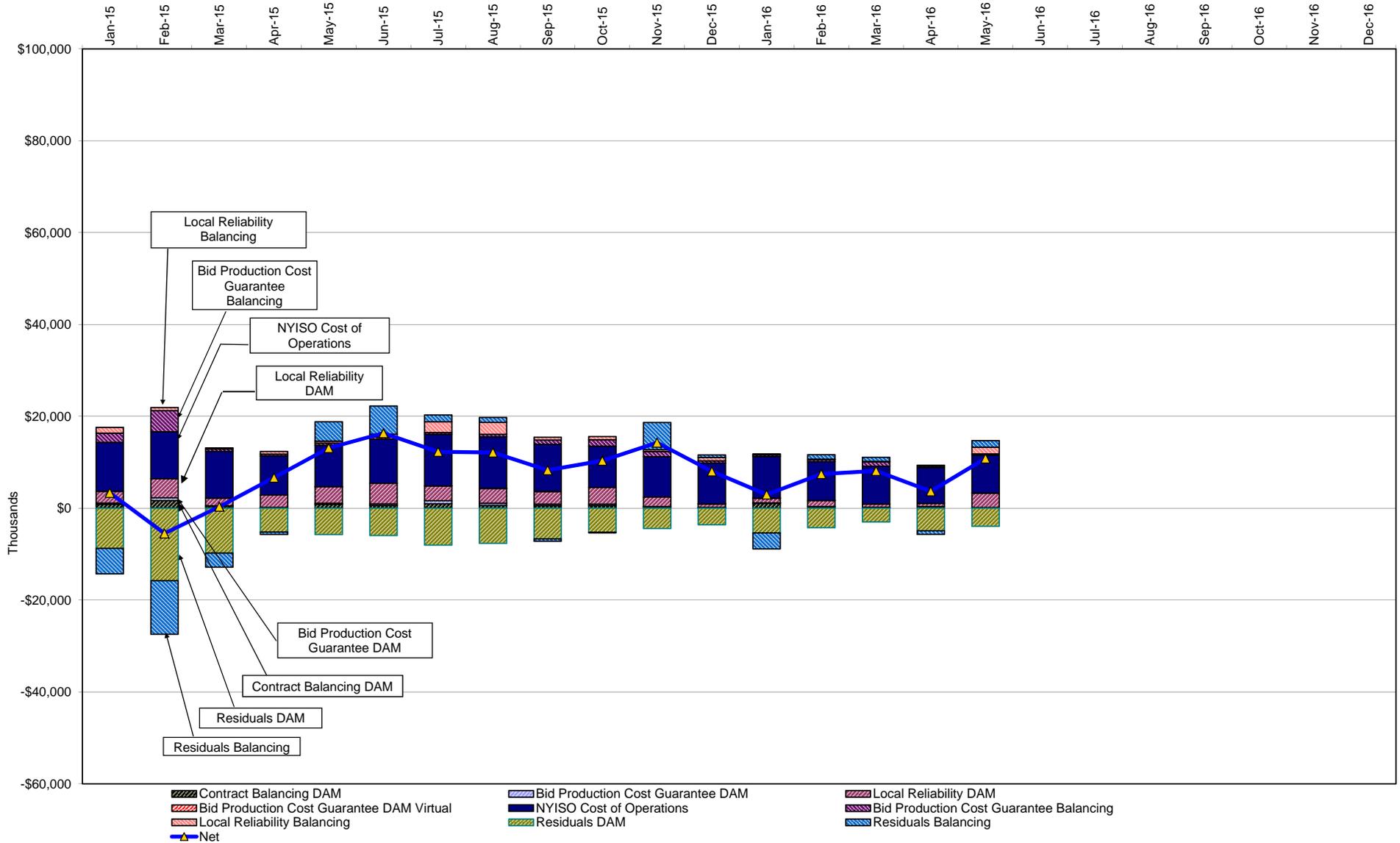
NYISO Average Cost/MWh (Energy and Ancillary Services) *
from the LBMP Customer point of view

2016	<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	34.29	28.71	20.66	27.96	23.31							
NTAC	0.59	0.78	0.62	1.14	1.10							
Reserve	0.77	0.73	0.73	0.87	0.71							
Regulation	0.12	0.12	0.12	0.12	0.11							
NYISO Cost of Operations	0.64	0.65	0.65	0.64	0.65							
FERC Fee Recovery	0.09	0.10	0.11	0.10	0.09							
Uplift	(0.43)	(0.07)	(0.03)	(0.34)	0.19							
Uplift: Local Reliability Share	0.09	0.11	0.06	0.07	0.35							
Uplift: Statewide Share	(0.52)	(0.18)	(0.09)	(0.41)	(0.16)							
Voltage Support and Black Start	0.35	0.36	0.36	0.35	0.36							
Avg Monthly Cost	36.42	31.37	23.23	30.84	26.52							
Avg YTD Cost	36.42	34.02	30.68	30.71	29.85							
TSA \$ per NYC MWh	0.00	0.00	0.05	0.00	0.00							
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	34.77	33.09	34.40	30.05	24.83	20.91
NTAC	0.32	0.35	0.41	0.64	0.56	0.80	0.54	0.60	0.63	0.53	0.68	1.05
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	0.69	0.70	0.69
Uplift	(0.48)	(1.08)	(0.68)	(0.15)	0.26	0.33	0.04	0.03	(0.15)	0.10	0.44	(0.07)
Uplift: Local Reliability Share	0.25	0.33	0.13	0.27	0.30	0.37	0.35	0.36	0.22	0.33	0.20	0.12
Uplift: Statewide Share	(0.73)	(1.41)	(0.81)	(0.42)	(0.05)	(0.04)	(0.30)	(0.33)	(0.37)	(0.23)	0.25	(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	36.35	32.18	27.64	23.71
Avg YTD Cost	60.91	87.74	76.64	66.82	60.96	56.02	52.77	50.20	48.59	47.17	45.66	44.10
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	<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

* Excludes ICAP payments.
Market Mitigation and Analysis
Prepared: 6/6/2016 8:59 AM

As of Jan. 2016, the annual FERC fee is recovered separately from Cost of Ops.
Data reflects true-ups thru December 2015.

NYISO Dollar Flows - Uplift- OATT Schedule 1 components - Data through May 31, 2016



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

2016	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh	14,760,915	13,614,754	13,413,781	12,496,141	12,959,886							
DAM LSE Internal LBMP Energy Sales	54%	55%	55%	57%	58%							
DAM External TC LBMP Energy Sales	4%	2%	1%	5%	2%							
DAM Bilateral - Internal Bilaterals	34%	34%	35%	28%	31%							
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	2%	2%	2%							
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%							
Balancing Energy Market MWh	-522,919	-580,900	-741,701	-303,313	-180,848							
Balancing Energy LSE Internal LBMP Energy Sales	-125%	-114%	-118%	-76%	-147%							
Balancing Energy External TC LBMP Energy Sales	12%	13%	19%	-13%	55%							
Balancing Energy Bilateral - Internal Bilaterals	19%	9%	4%	8%	27%							
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	5%	3%	5%	7%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-12%	-8%	-24%	-42%							
Transactions Summary												
LBMP	56%	56%	54%	62%	59%							
Internal Bilaterals	36%	36%	37%	29%	32%							
Import Bilaterals	5%	5%	6%	6%	5%							
Export Bilaterals	2%	2%	2%	2%	2%							
Wheels Through	1%	1%	1%	1%	2%							
Market Share of Total Load												
Day Ahead Market	103.7%	104.5%	105.9%	102.5%	101.4%							
Balancing Energy +	-3.7%	-4.5%	-5.9%	-2.5%	-1.4%							
Total MWh	14,237,996	13,033,853	12,672,080	12,192,828	12,779,038							
Average Daily Energy Sendout/Month GWh	439	436	397	385	397							

2015	January	February	March	April	May	June	July	August	September	October	November	December
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	13,620,002
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 - Import/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	-33,268	-604,600	-718,787	-642,268
Balancing Energy LSE Internal LBMP Energy Sales	-149%	-247%	-192%	-147%	-142%	-106%	-120%	-139%	-345%	-115%	-110%	-115%
Balancing Energy External TC LBMP Energy Sales	30%	113%	64%	36%	35%	16%	25%	50%	110%	12%	12%	17%
Balancing Energy Bilateral - Internal Bilaterals	13%	14%	19%	5%	6%	6%	13%	25%	239%	7%	4%	5%
Balancing Energy Bilateral - Import/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%	46%	5%	5%	6%
Balancing Energy Bilateral - Wheel Through Bilaterals	0%	12%	-4%	-5%	-9%	-22%	-21%	-44%	-149%	-9%	-11%	-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%	104.7%	105.7%	104.9%
Balancing Energy +	-4.3%	-2.0%	-2.7%	-3.4%	-2.6%	-4.0%	-3.1%	-1.4%	-0.2%	-4.7%	-5.7%	-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	14,707,639	12,941,433	12,619,545	12,977,734
Average Daily Energy Sendout/Month GWh	462	481	436	387	409	450	512	511	473	389	396	408

+ 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 2016 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 *	\$31.01	\$25.76	\$18.63	\$26.39	\$21.07							
Standard Deviation	\$10.86	\$12.46	\$6.99	\$6.95	\$7.04							
Load Weighted Price **	\$32.13	\$26.75	\$19.37	\$27.14	\$22.12							
<u>RTC LBMP</u>												
Price *	\$26.12	\$24.10	\$16.41	\$23.41	\$19.96							
Standard Deviation	\$16.06	\$17.89	\$11.32	\$9.09	\$11.44							
Load Weighted Price **	\$27.16	\$25.29	\$17.11	\$24.10	\$21.23							
<u>REAL TIME LBMP</u>												
Price *	\$30.15	\$24.28	\$17.84	\$25.71	\$20.67							
Standard Deviation	\$60.09	\$18.19	\$15.06	\$16.59	\$12.84							
Load Weighted Price **	\$31.80	\$25.61	\$18.64	\$26.57	\$21.99							
Average Daily Energy Sendout/Month GWh	439	436	397	385	397							

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	\$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
<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	\$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
<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	\$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

* Average zonal load weighted prices.

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

NYISO Monthly Average Internal LBMPs 2015- 2016

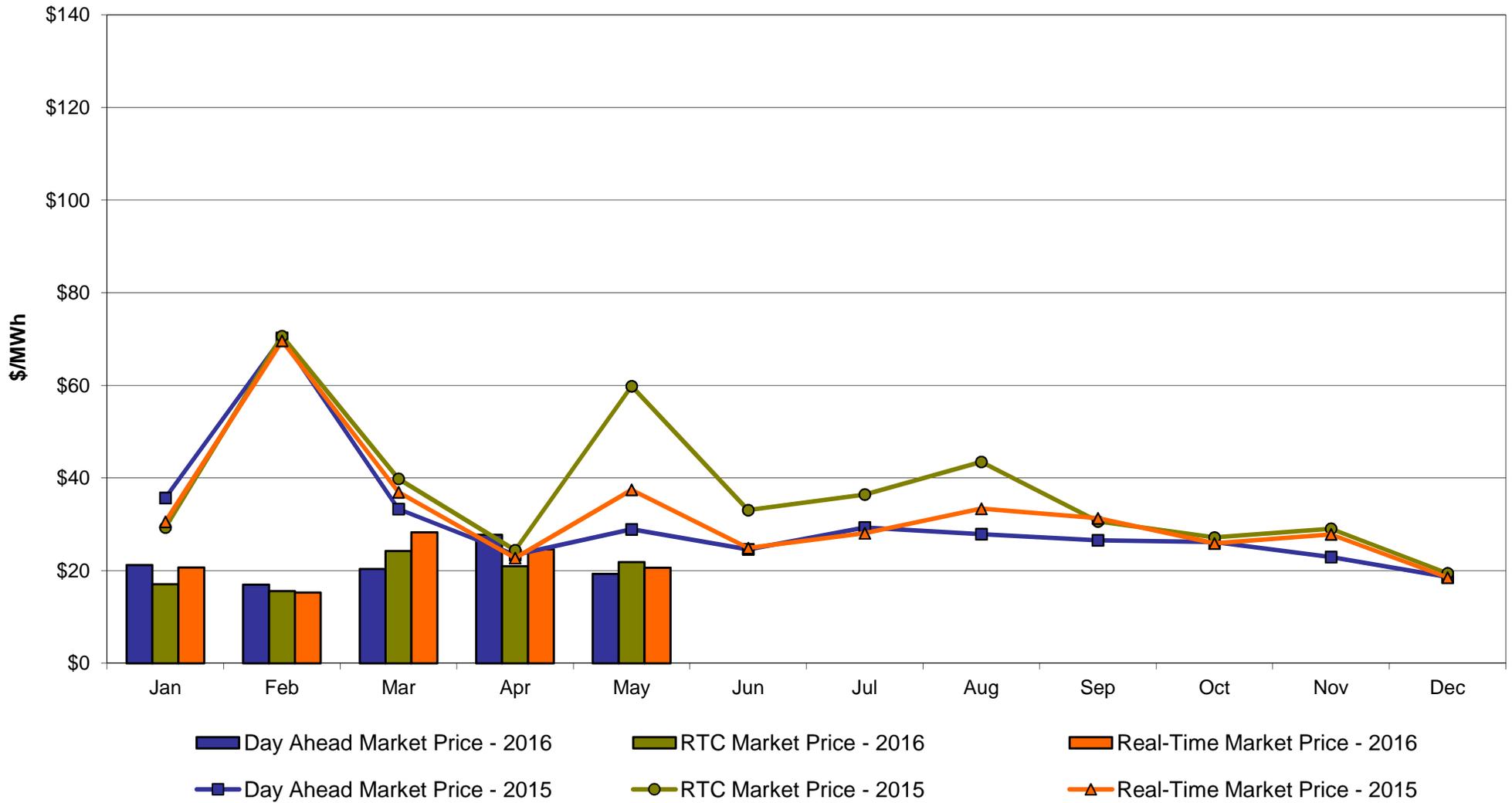


May 2016 Zonal LBMP Statistics for NYISO (\$/MWh)

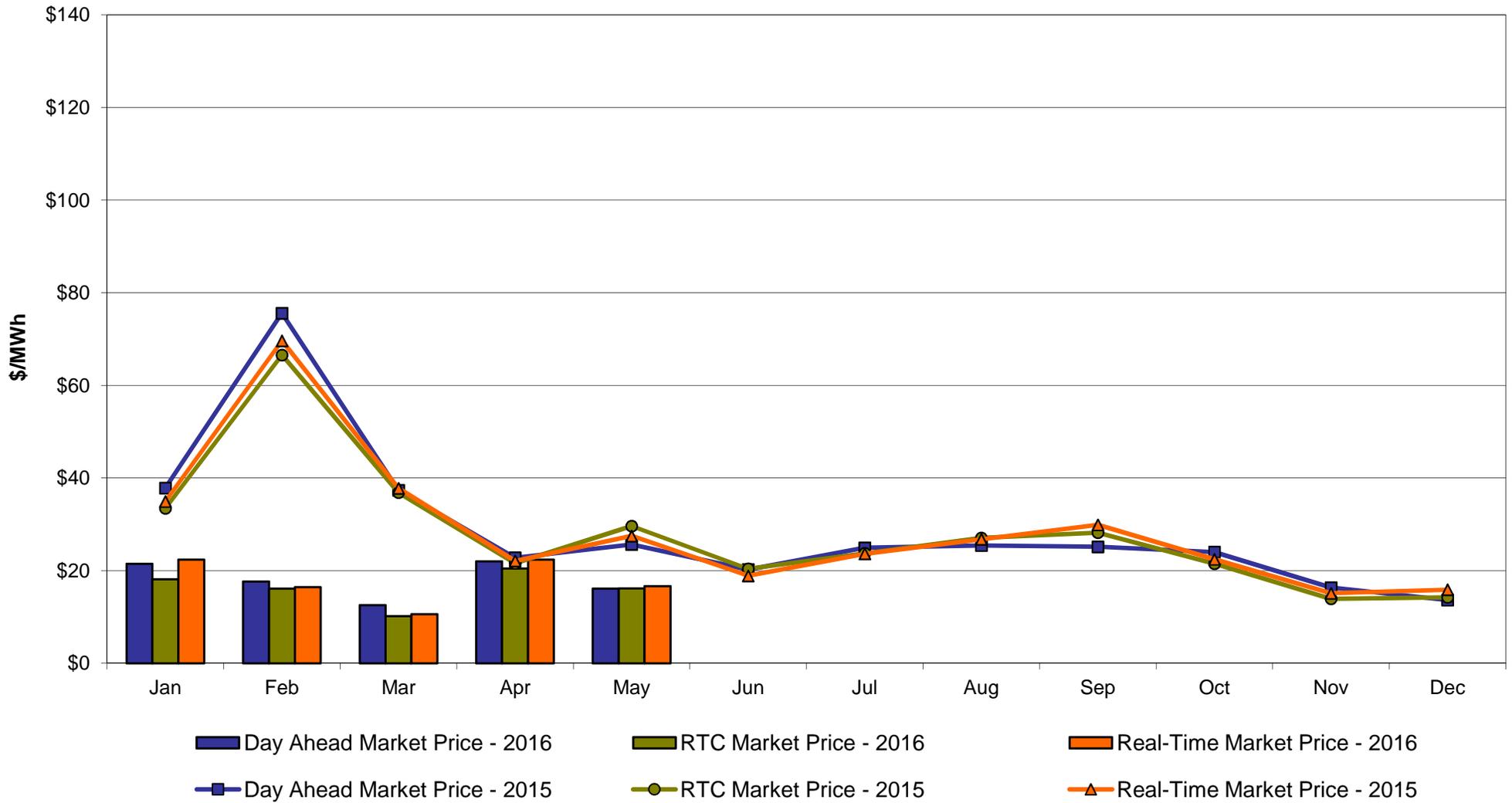
	<u>WEST Zone A</u>	<u>GENESEE Zone B</u>	<u>NORTH Zone D</u>	<u>CENTRAL Zone C</u>	<u>MOHAWK VALLEY Zone E</u>	<u>CAPITAL Zone F</u>	<u>HUDSON VALLEY Zone G</u>	<u>MILLWOOD Zone H</u>	<u>DUNWOODIE Zone I</u>	<u>NEW YORK CITY Zone J</u>	<u>LONG ISLAND Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	19.28	15.41	11.94	16.11	16.02	21.40	21.85	22.16	23.23	23.45	24.78
Standard Deviation	12.14	6.97	5.56	7.28	6.78	6.26	6.51	6.57	6.73	6.78	8.26
RTC LBMP											
Unweighted Price *	21.84	15.13	9.47	16.14	15.52	20.78	20.55	20.74	20.76	20.79	24.10
Standard Deviation	52.65	9.79	80.51	10.53	13.96	8.71	8.65	8.68	8.63	8.55	29.10
REAL TIME LBMP											
Unweighted Price *	20.60	15.60	10.75	16.65	16.25	21.89	21.61	21.81	21.84	21.88	25.21
Standard Deviation	46.99	14.01	55.49	14.57	15.01	11.08	10.99	11.04	10.96	10.88	23.84
	<u>ONTARIO IESO Zone O</u>	<u>HYDRO QUEBEC (Wheel) Zone M</u>	<u>HYDRO QUEBEC (Import/Export) Zone M</u>	<u>PJM Zone P</u>	<u>NEW ENGLAND Zone N</u>	<u>CROSS SOUND CABLE Controllable Line</u>	<u>NORTHPORT- NORWALK Controllable Line</u>	<u>NEPTUNE Controllable Line</u>	<u>LINDEN VFT Controllable Line</u>	<u>HUDSON Controllable Line</u>	<u>Dennison Controllable Line</u>
DAY AHEAD LBMP											
Unweighted Price *	14.51	11.49	11.49	20.56	21.46	24.49	23.55	24.24	23.20	23.44	11.81
Standard Deviation	5.83	5.25	5.25	6.66	6.43	8.08	6.38	7.54	6.38	6.79	5.43
RTC LBMP											
Unweighted Price *	13.19	7.94	7.94	19.23	21.56	23.50	23.33	23.21	20.19	20.82	9.40
Standard Deviation	12.60	91.28	91.28	9.08	13.11	27.74	27.63	27.08	7.65	8.63	78.17
REAL TIME LBMP											
Unweighted Price *	14.56	9.53	9.53	19.90	22.10	24.87	23.32	24.38	21.82	21.90	10.62
Standard Deviation	19.21	62.22	62.22	11.72	11.99	23.76	26.85	21.33	10.94	10.97	53.97

* Straight LBMP averages

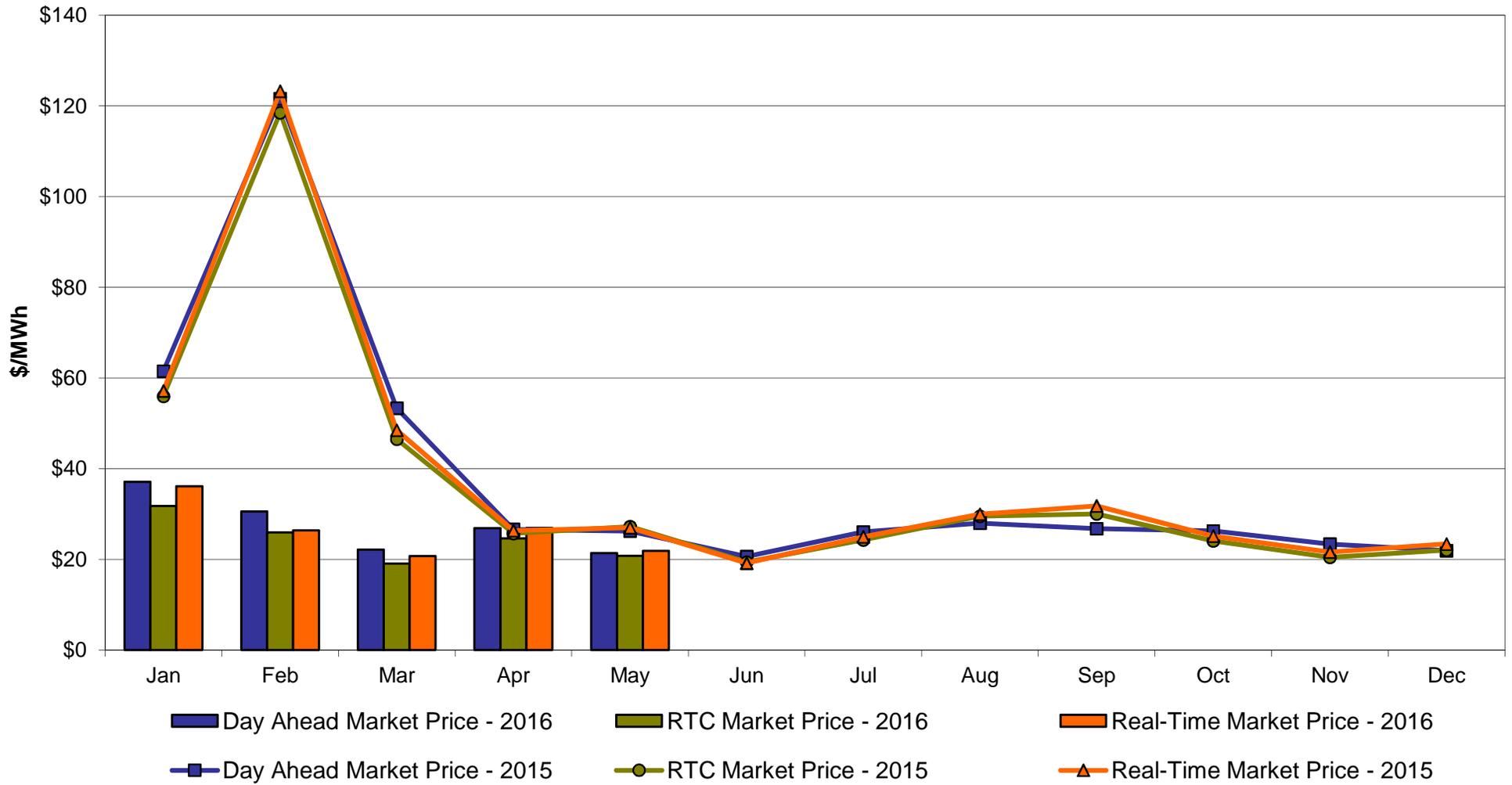
**West Zone A
Monthly Average LBMP Prices 2015 - 2016**



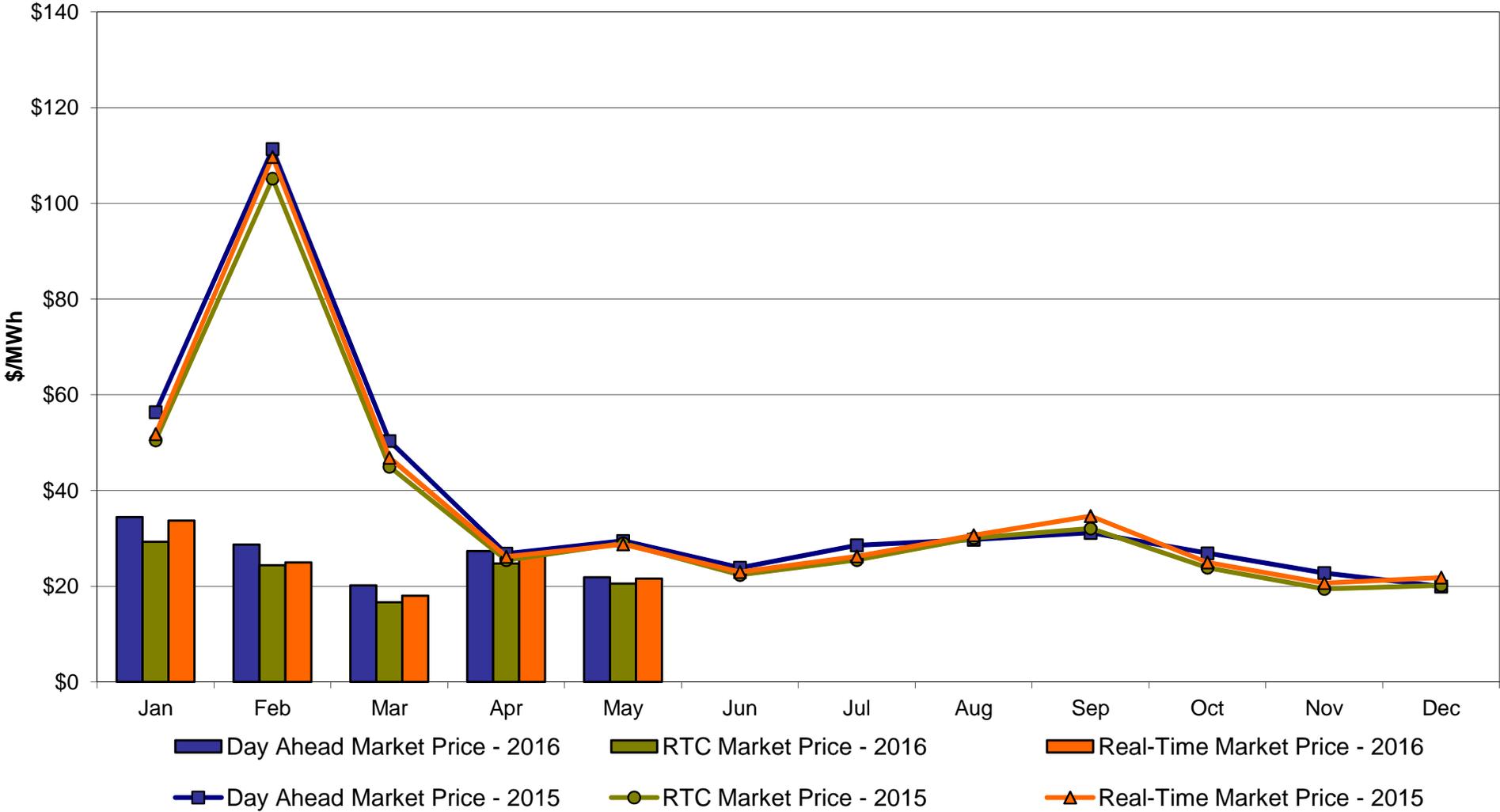
**Central Zone C
Monthly Average LBMP Prices 2015 - 2016**



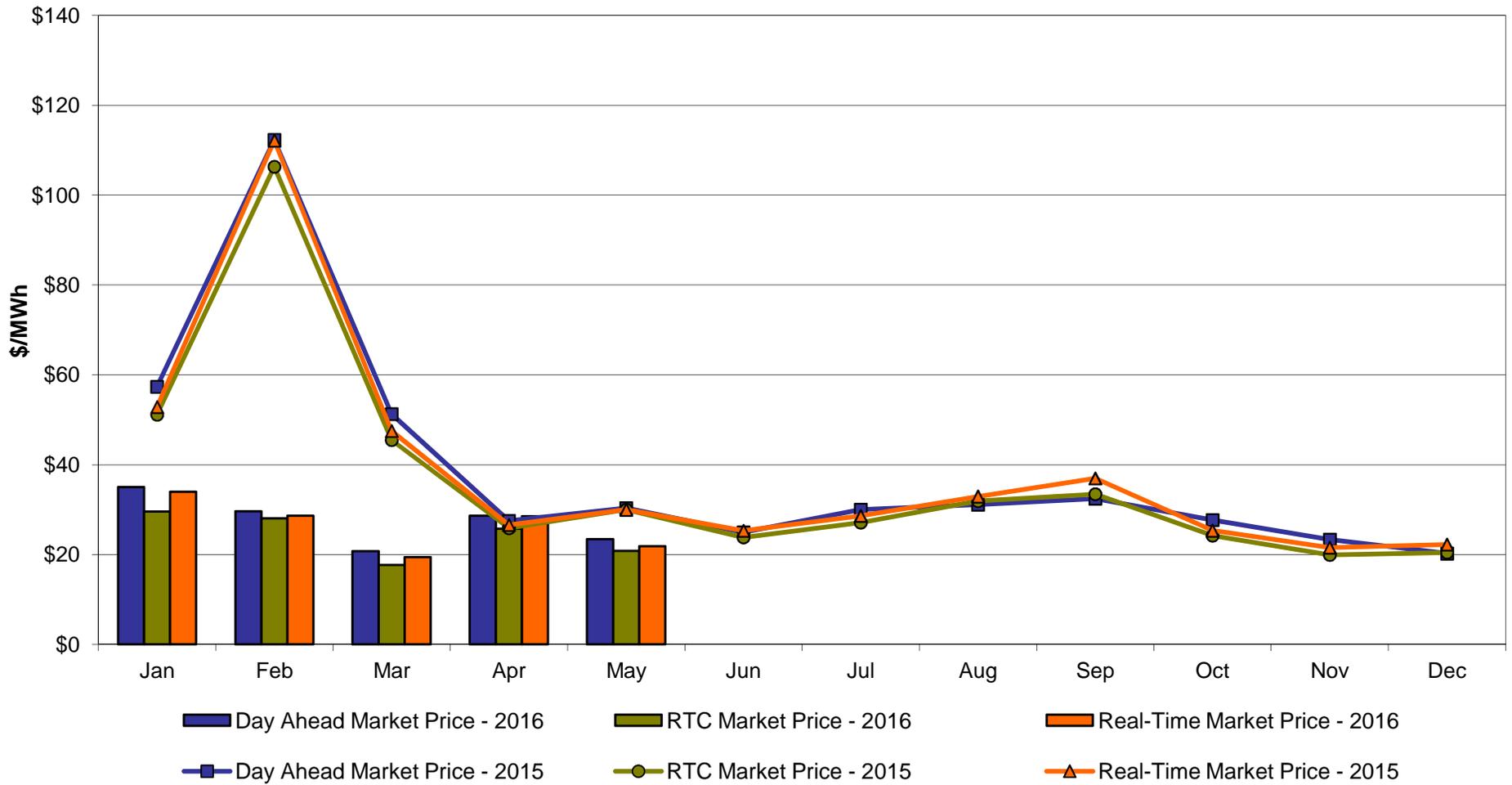
Capital Zone F Monthly Average LBMP Prices 2015 - 2016



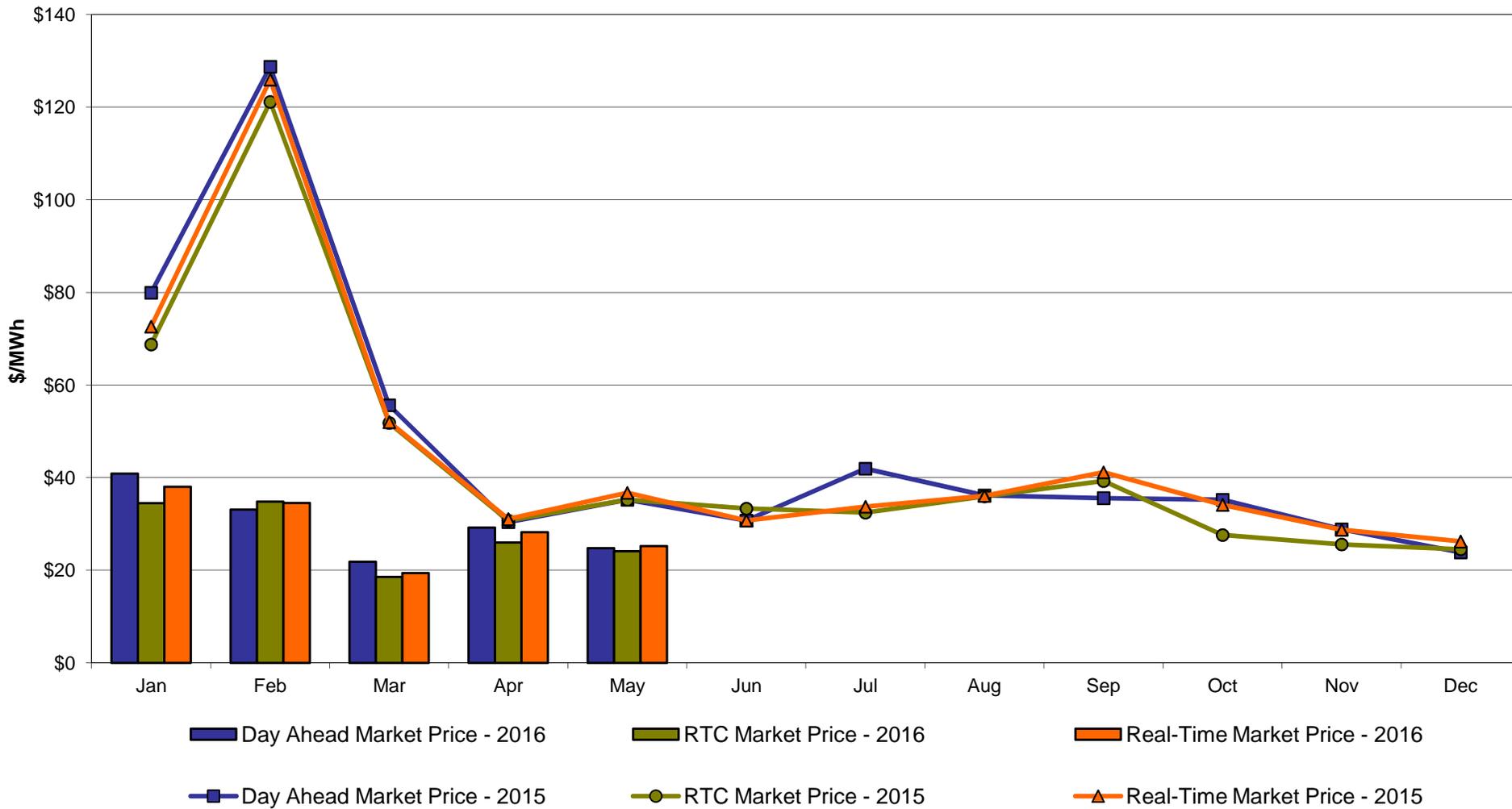
Hudson Valley Zone G Monthly Average LBMP Prices 2015 - 2016



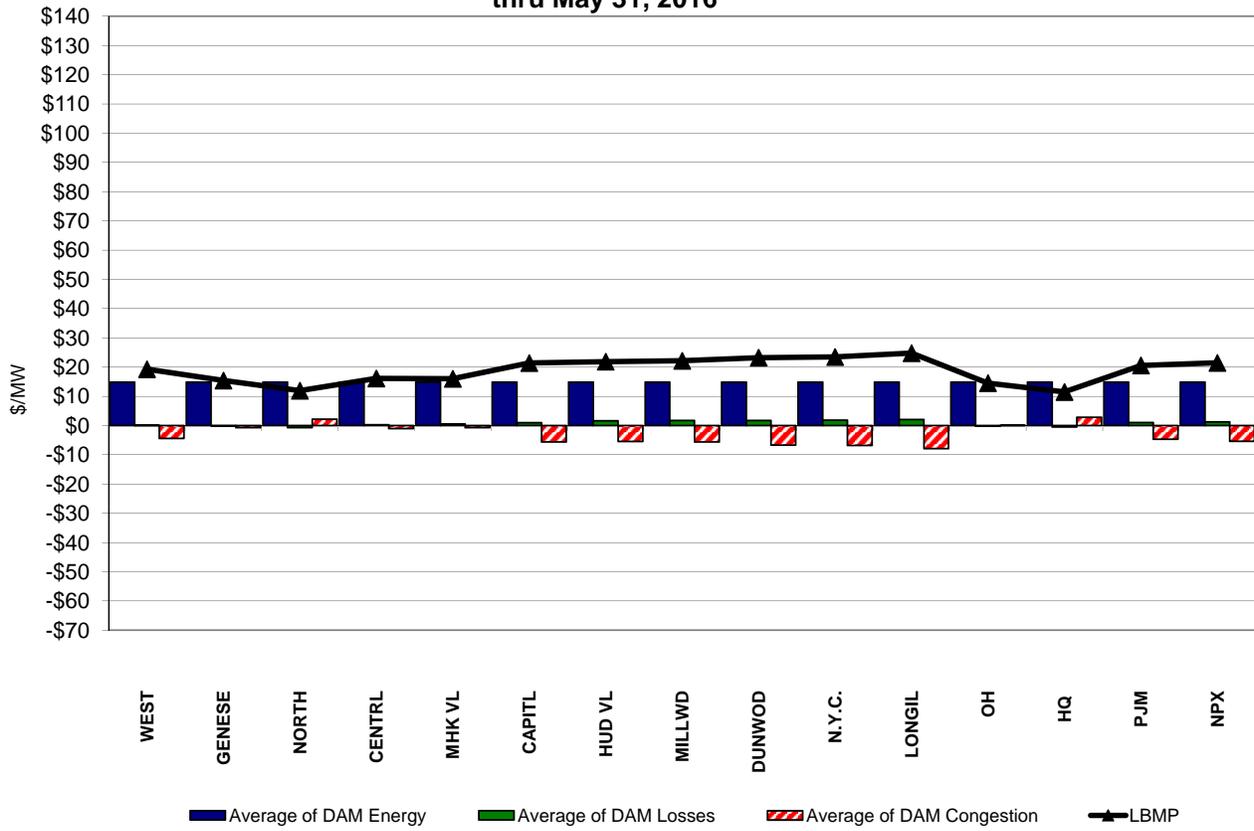
NYC Zone J Monthly Average LBMP Prices 2015 - 2016



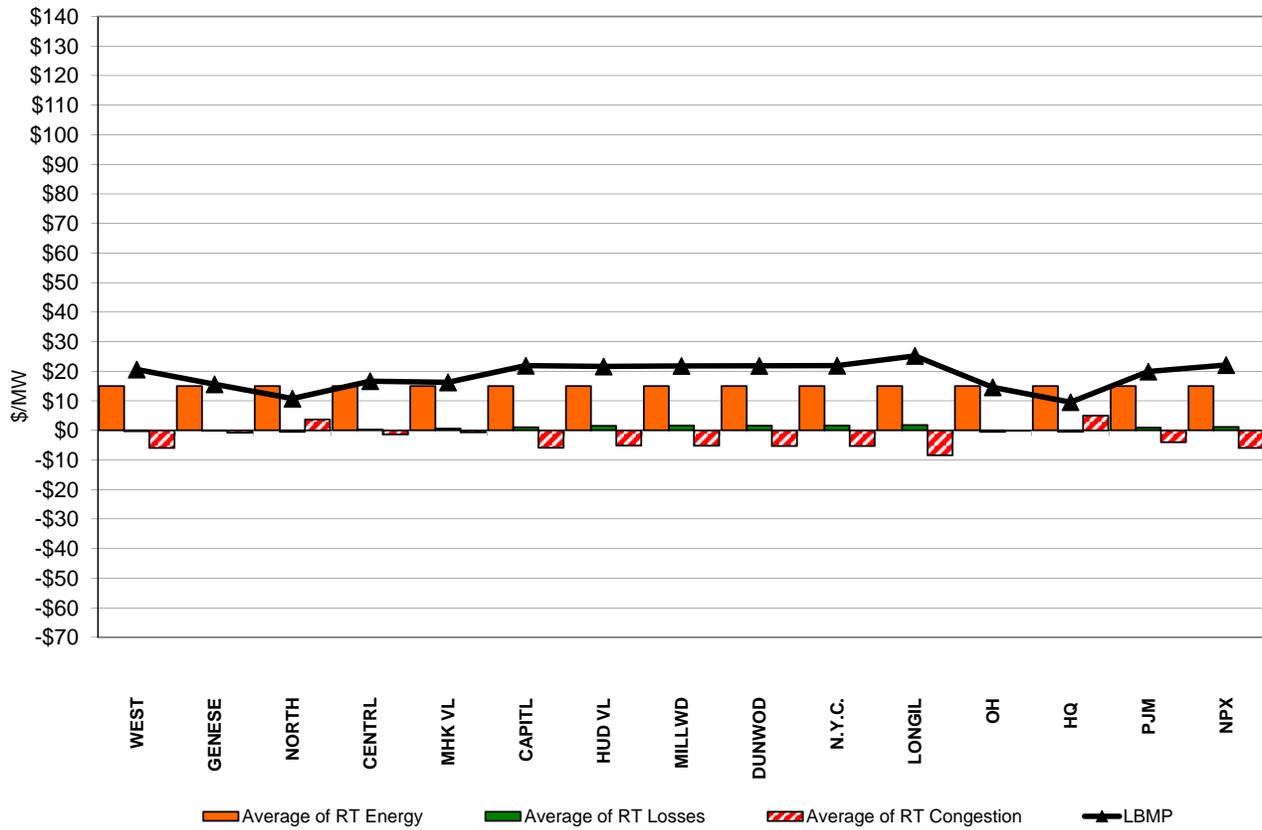
Long Island Zone K Monthly Average LBMP Prices 2015 - 2016



DAM Zonal Unweighted Monthly Average LBMP Components thru May 31, 2016

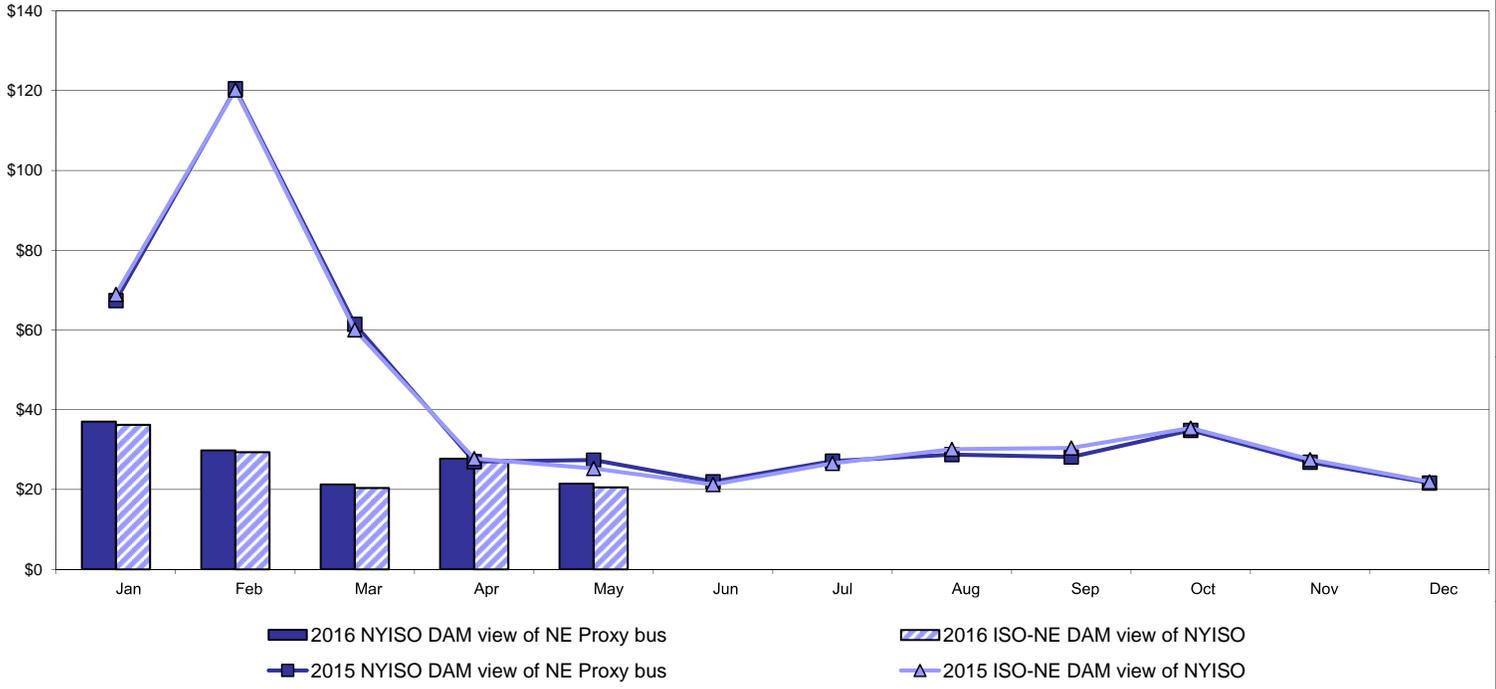


RT Zonal Unweighted Monthly Average LBMP Components thru May 31, 2016

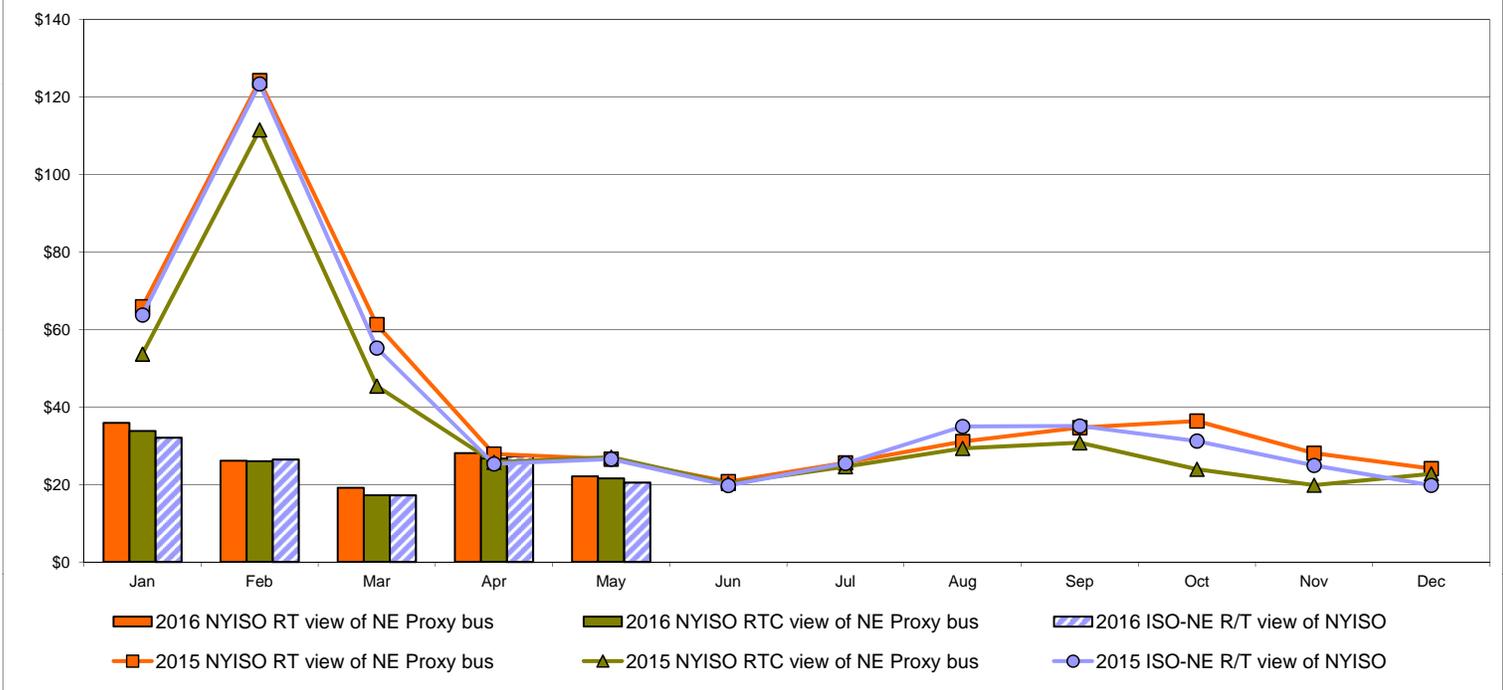


External Comparison ISO-New England

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

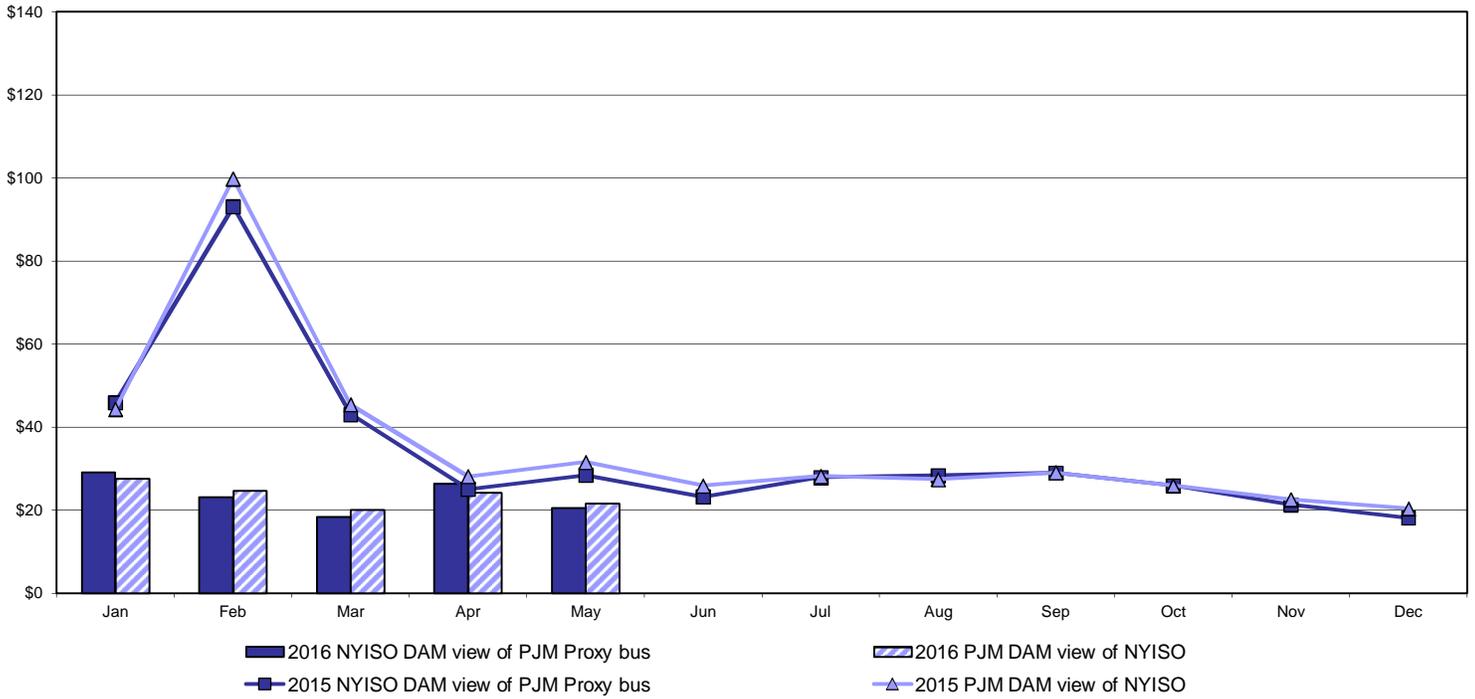


Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

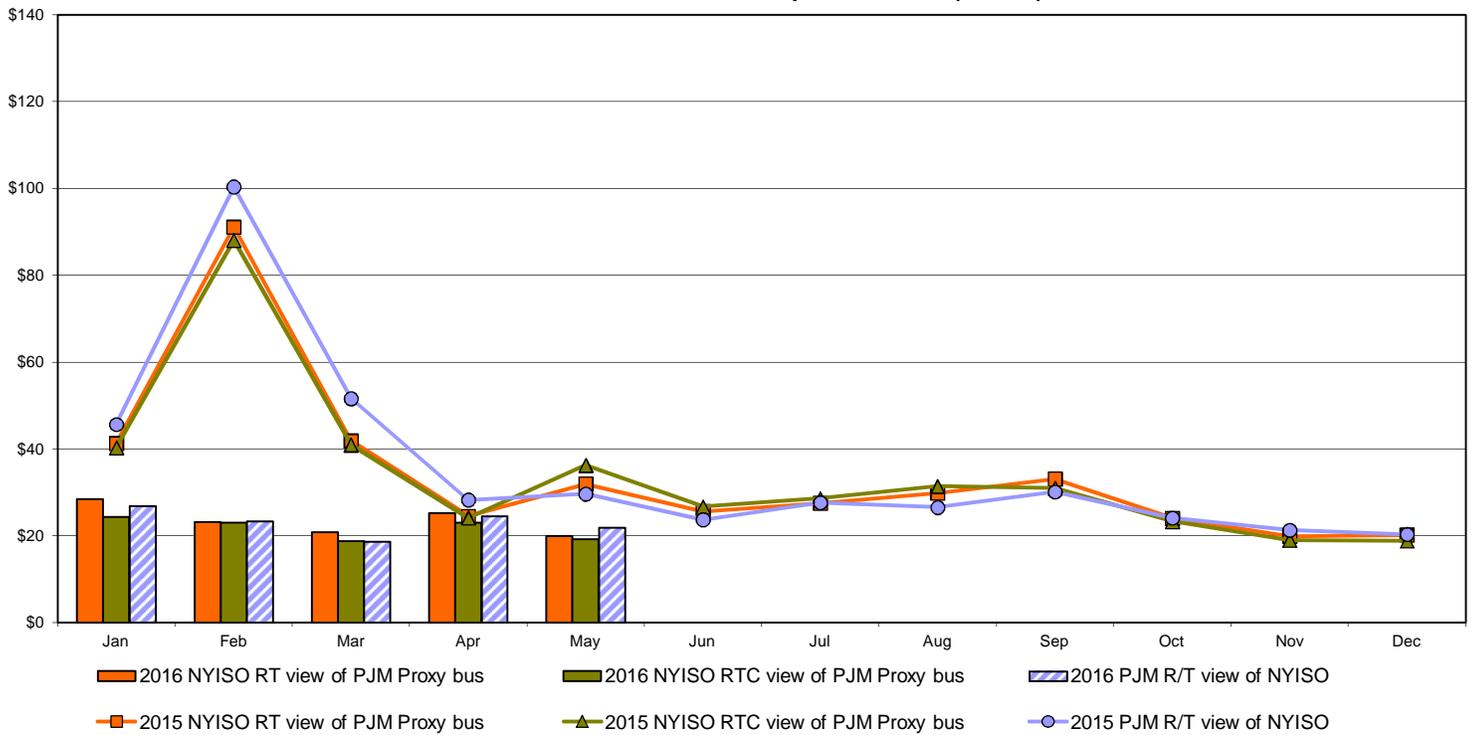


External Comparison PJM

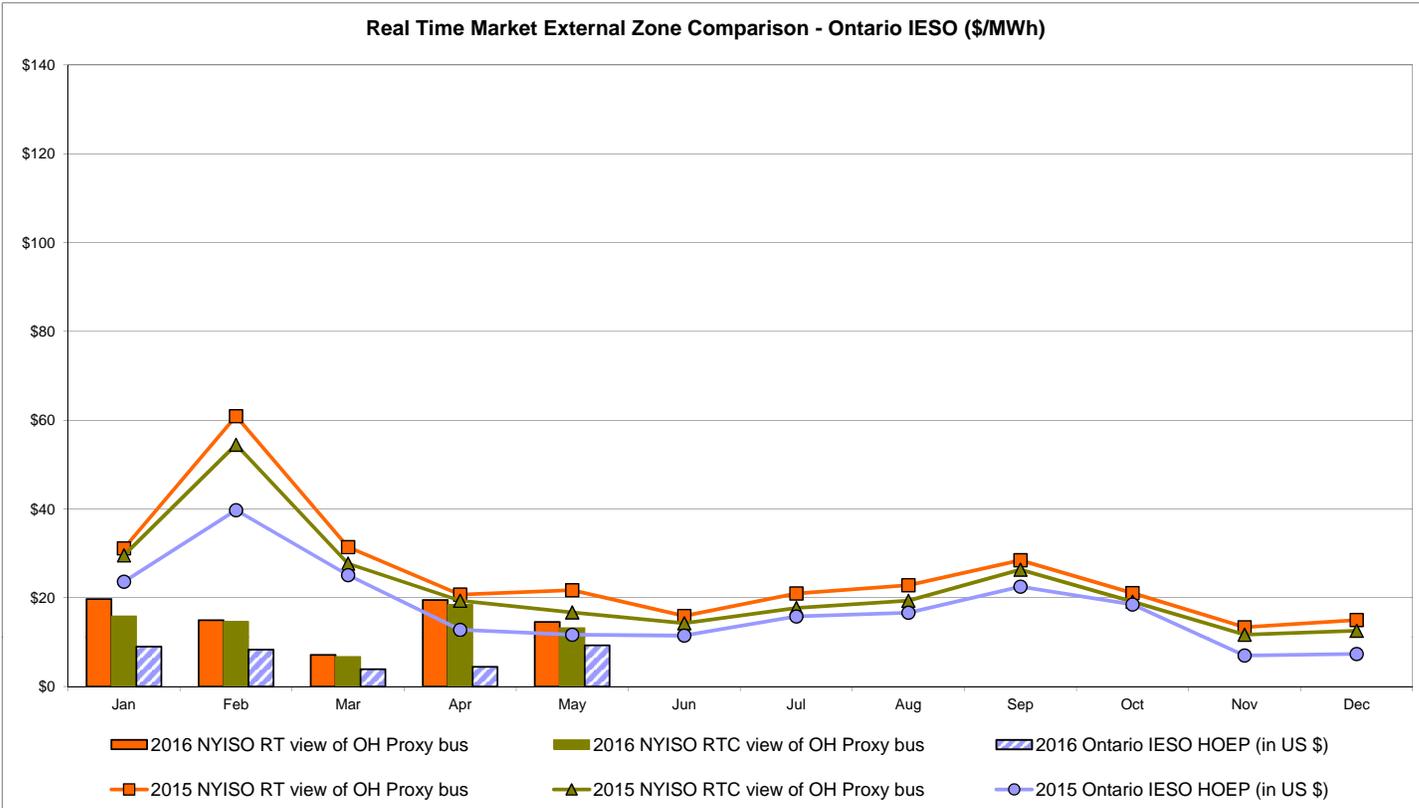
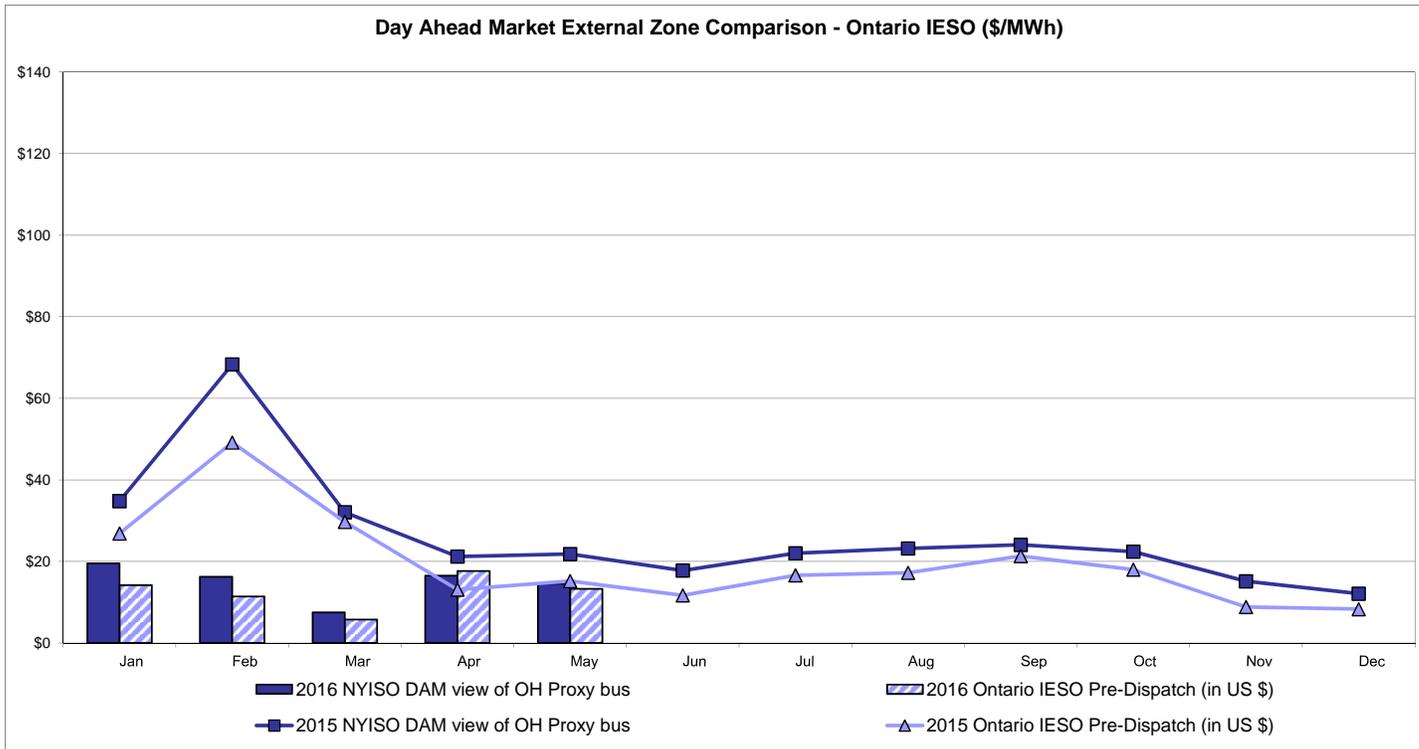
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

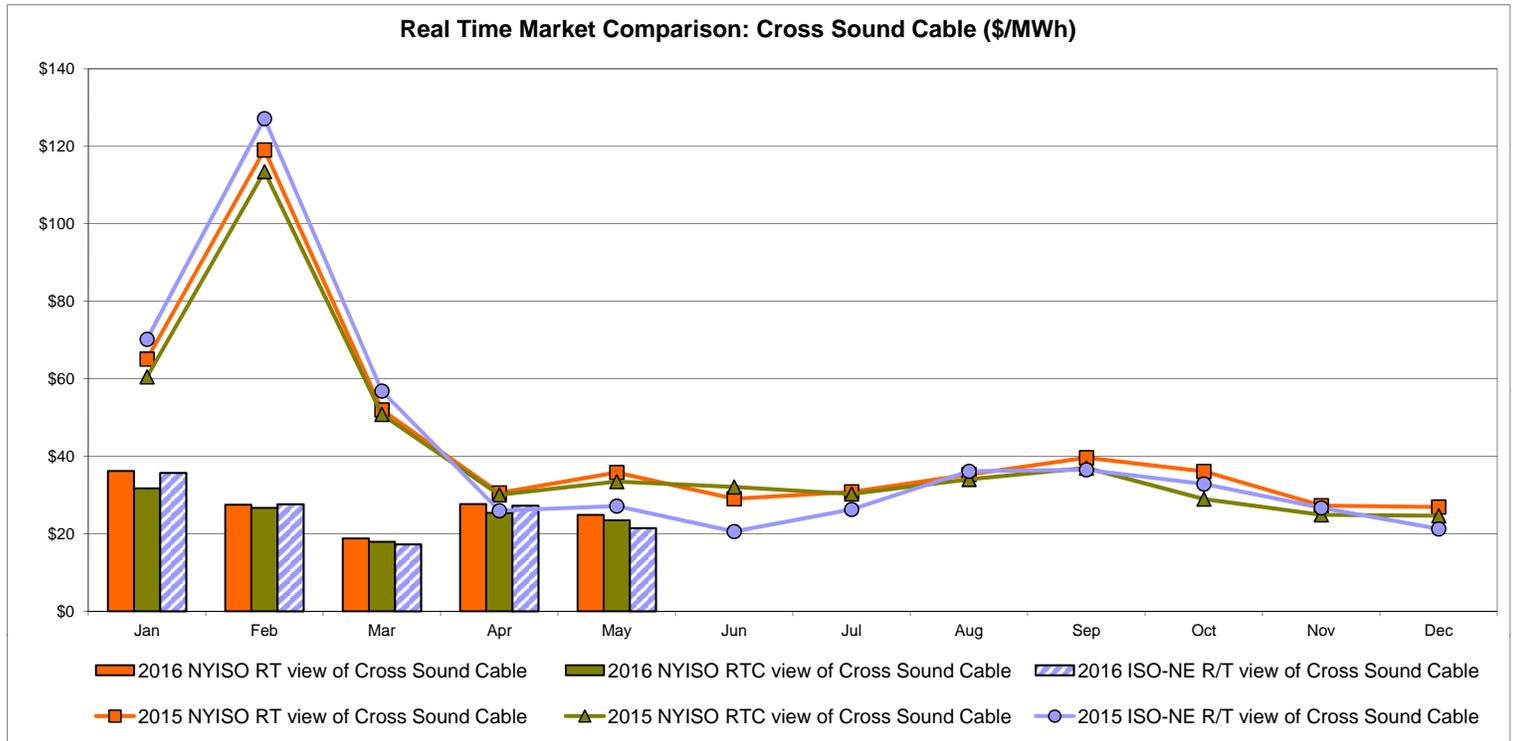
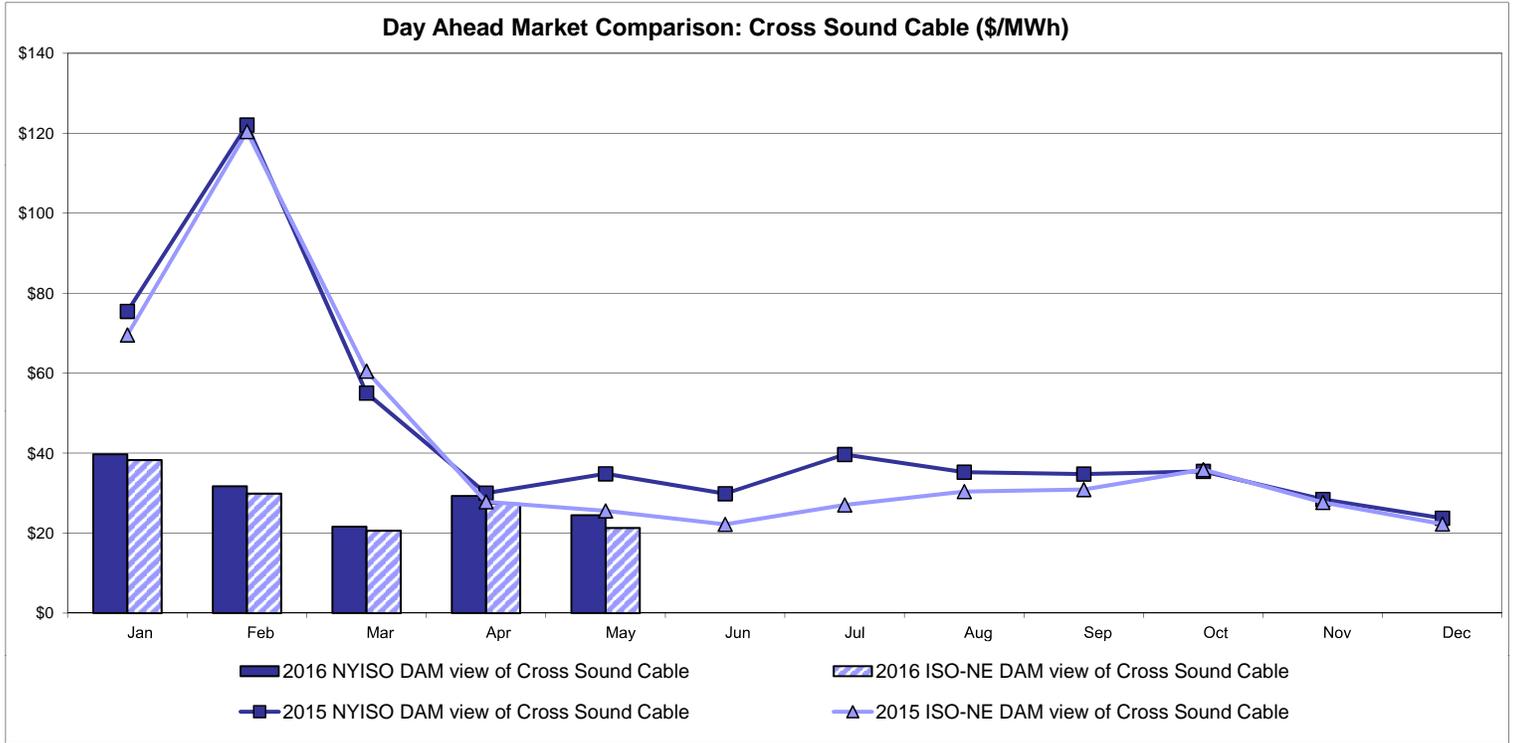


External Comparison Ontario IESO



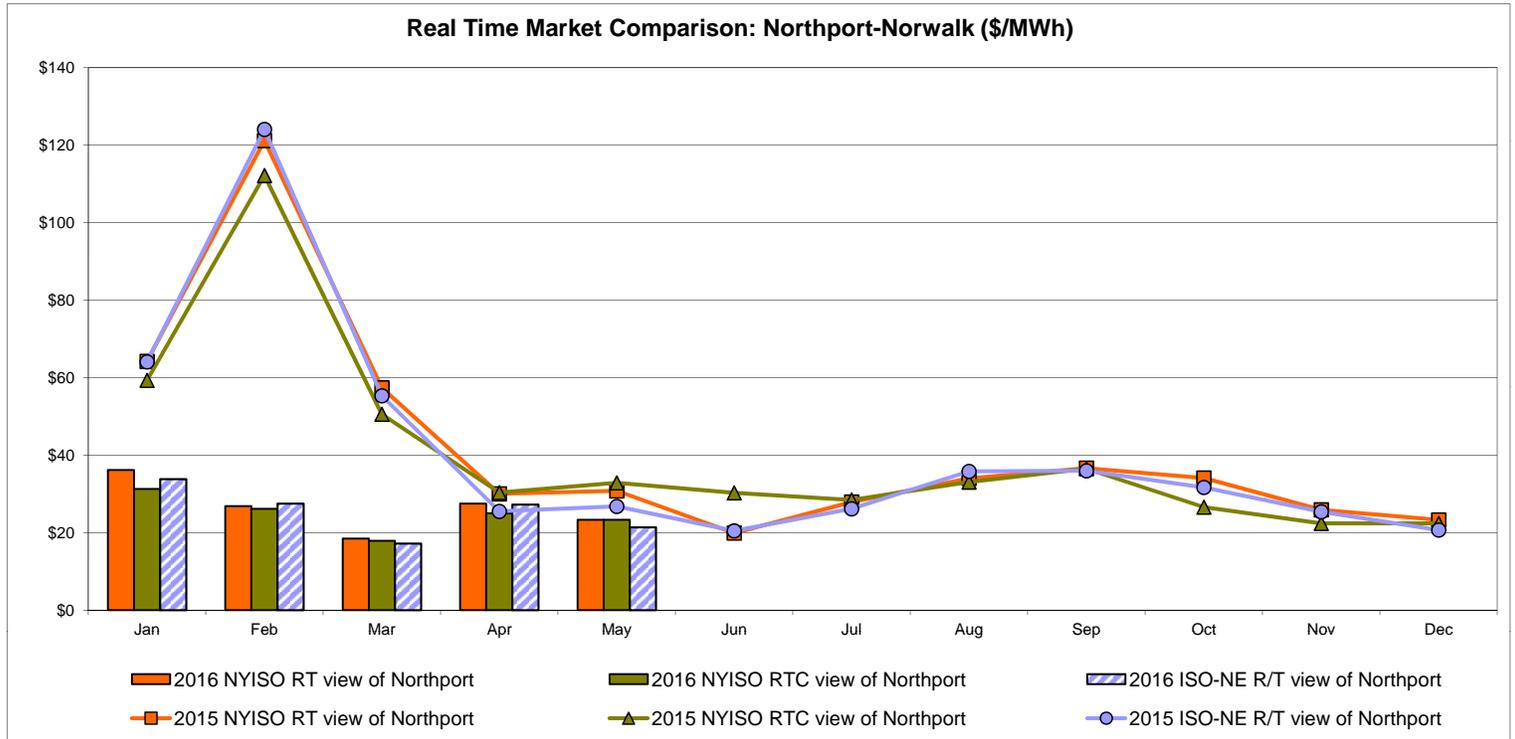
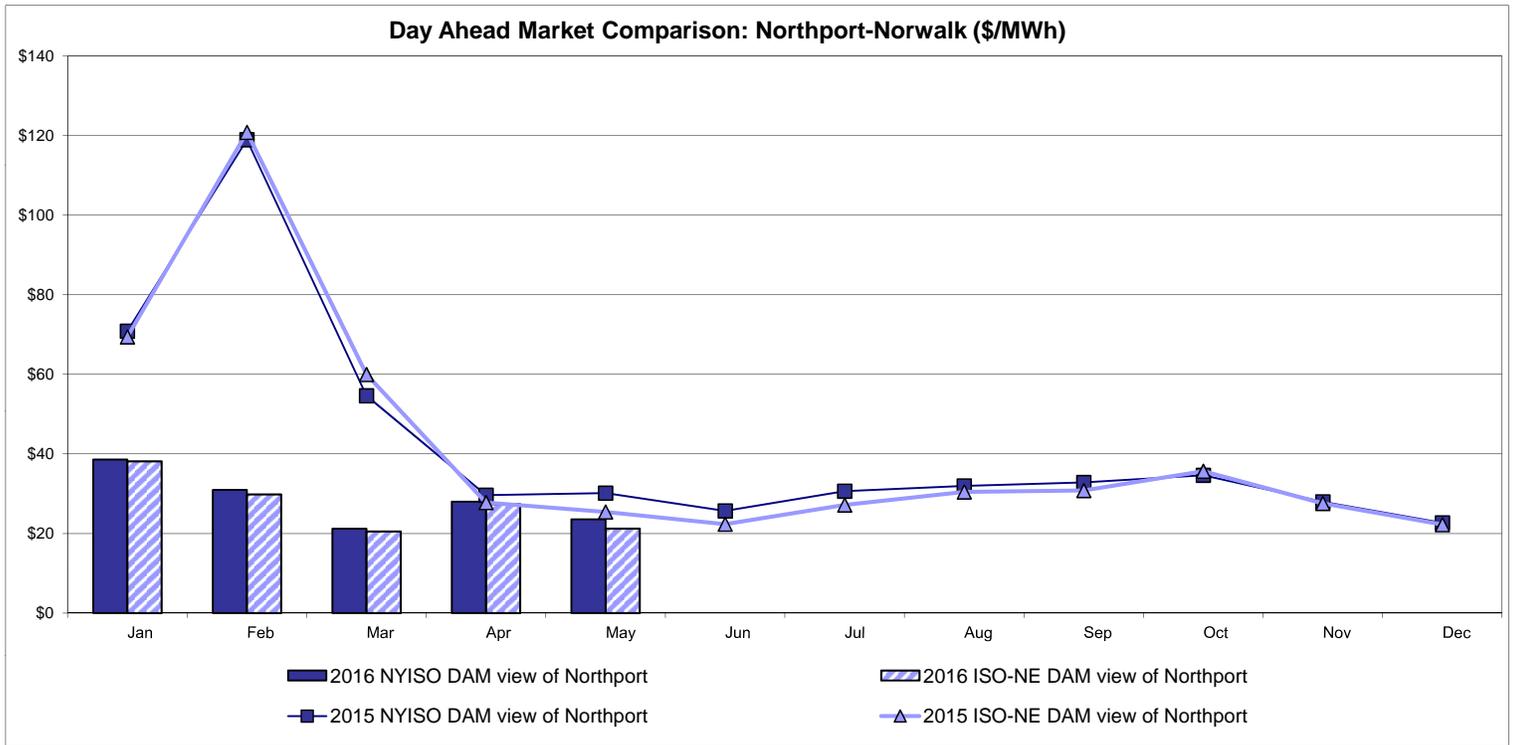
Notes: Exchange factor used for May 2016 was 0.7731 to US
 HOEP: Hourly Ontario Energy Price
 Pre-Dispatch: Projected Energy Price

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.

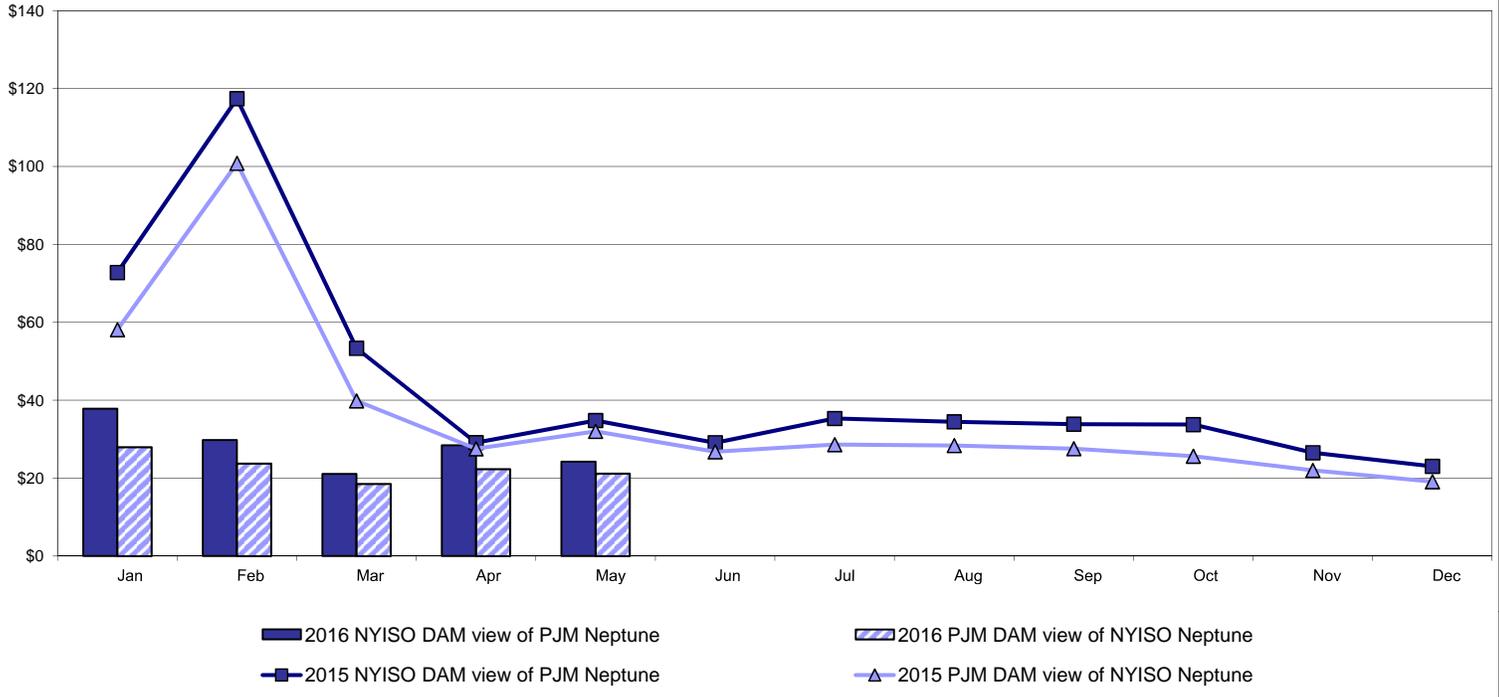
External Controllable Line: Northport - Norwalk (New England)



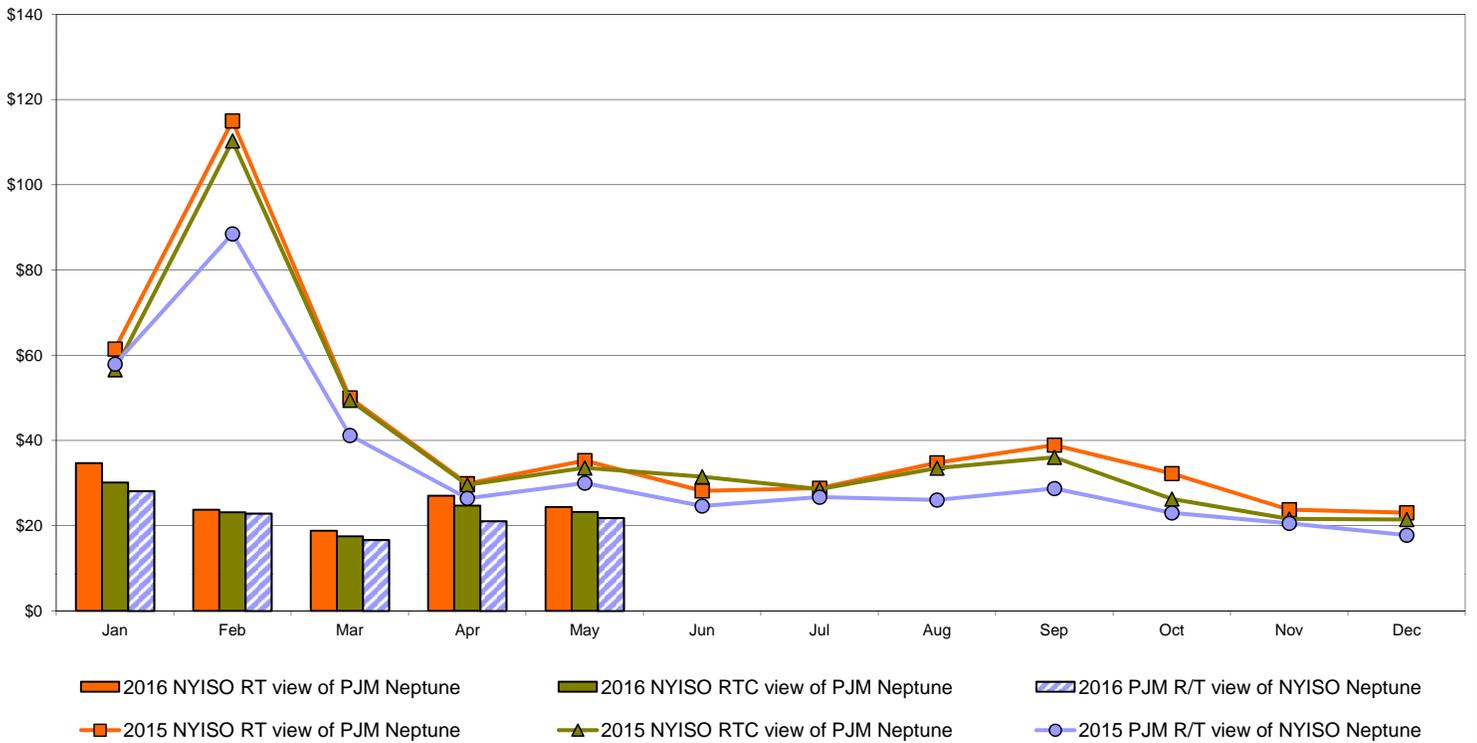
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

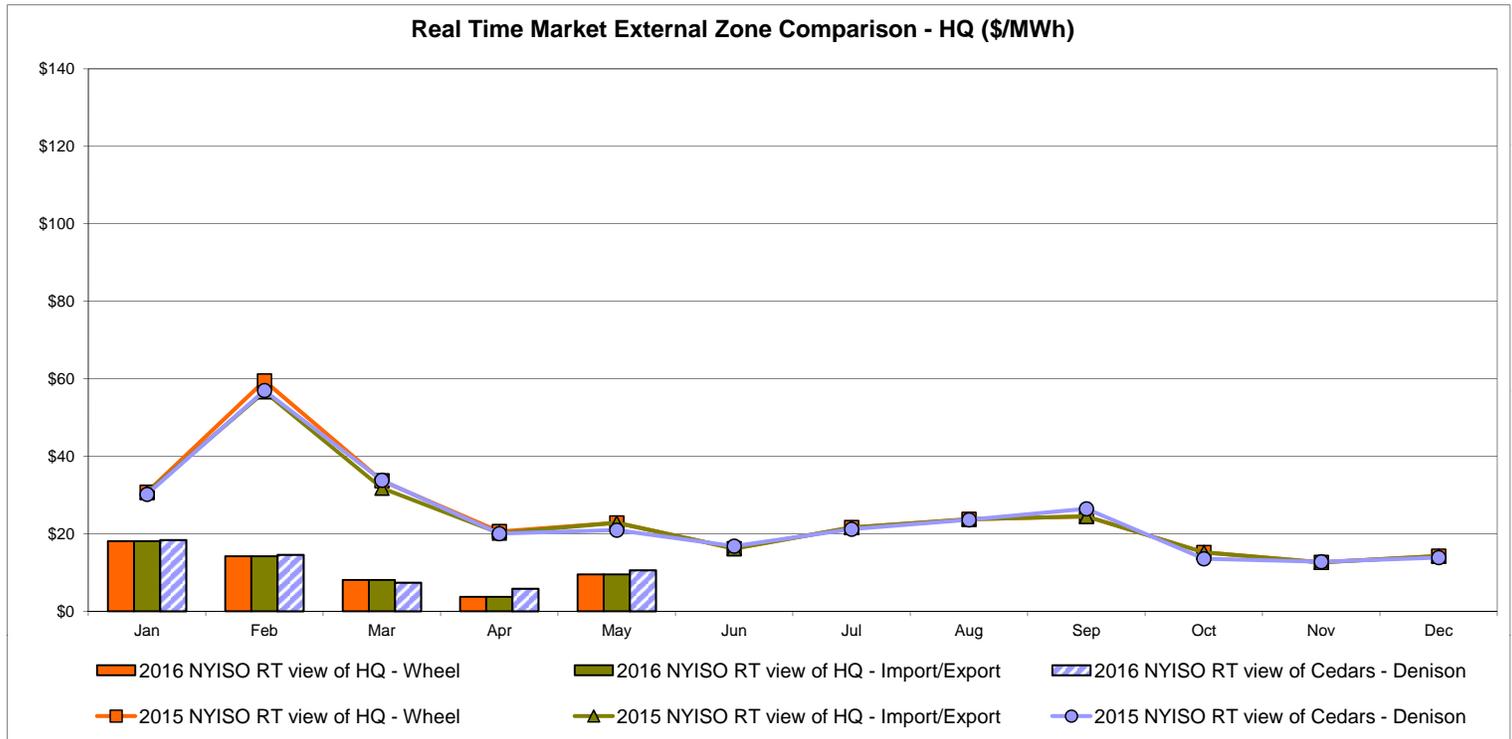
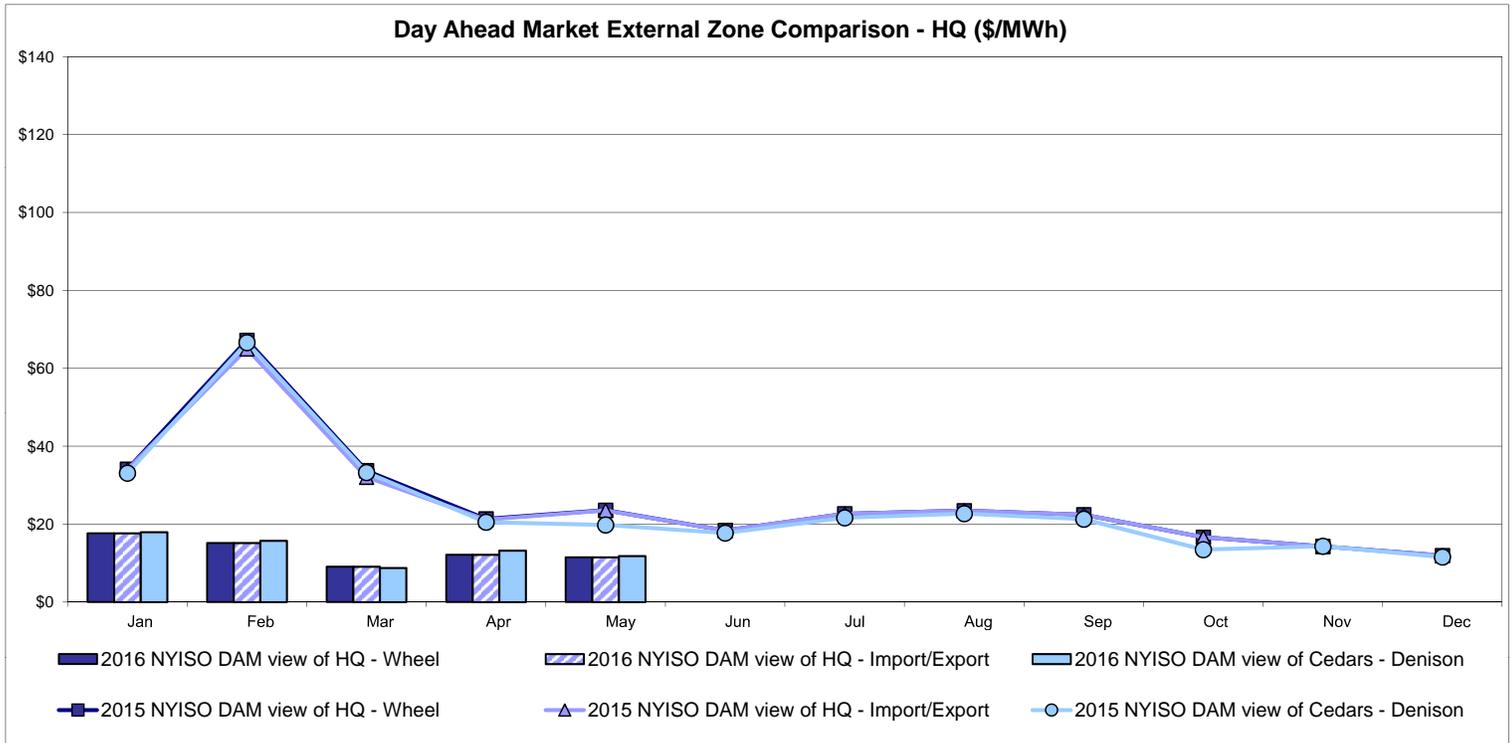
Day Ahead Market Comparison: Neptune (\$/MWh)



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

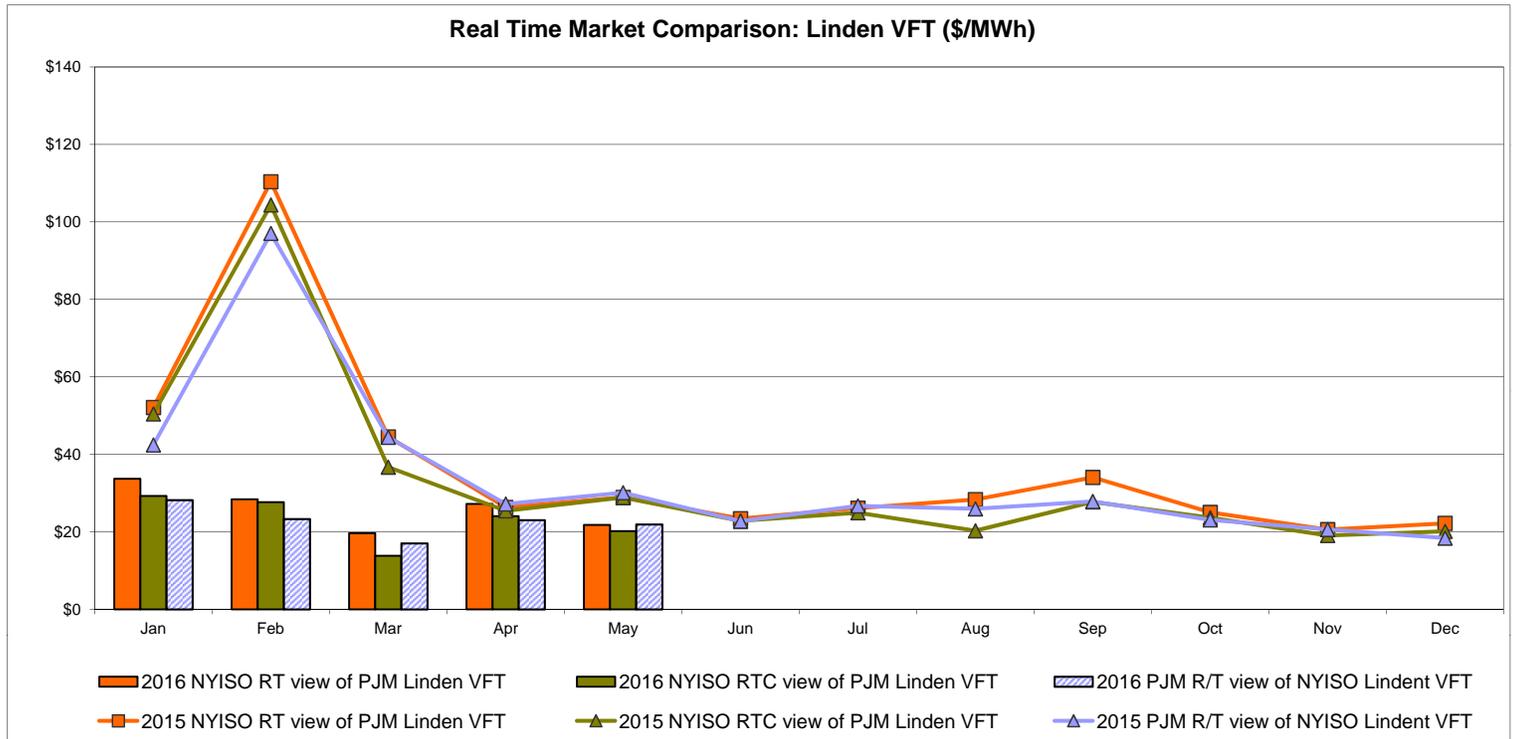
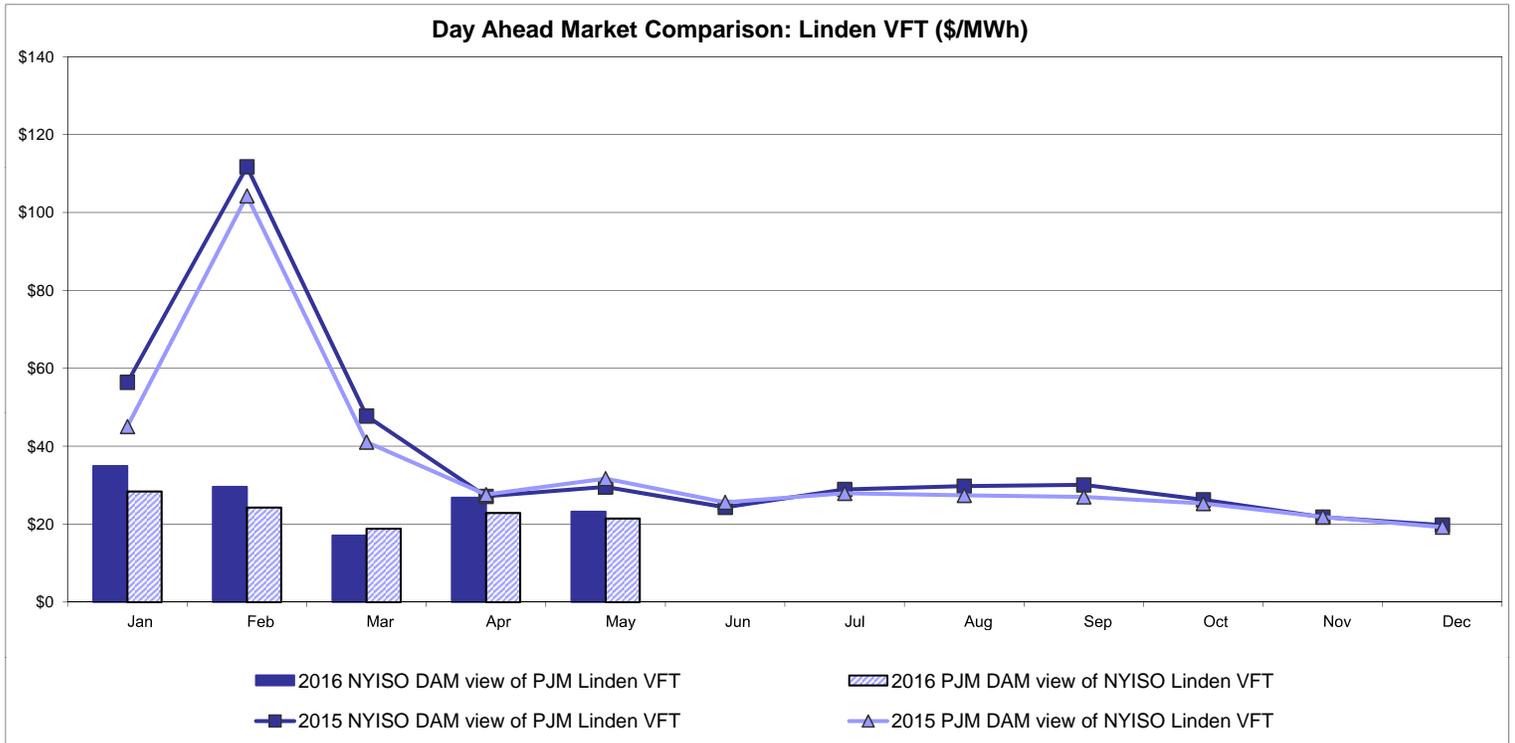


External Comparison Hydro-Quebec

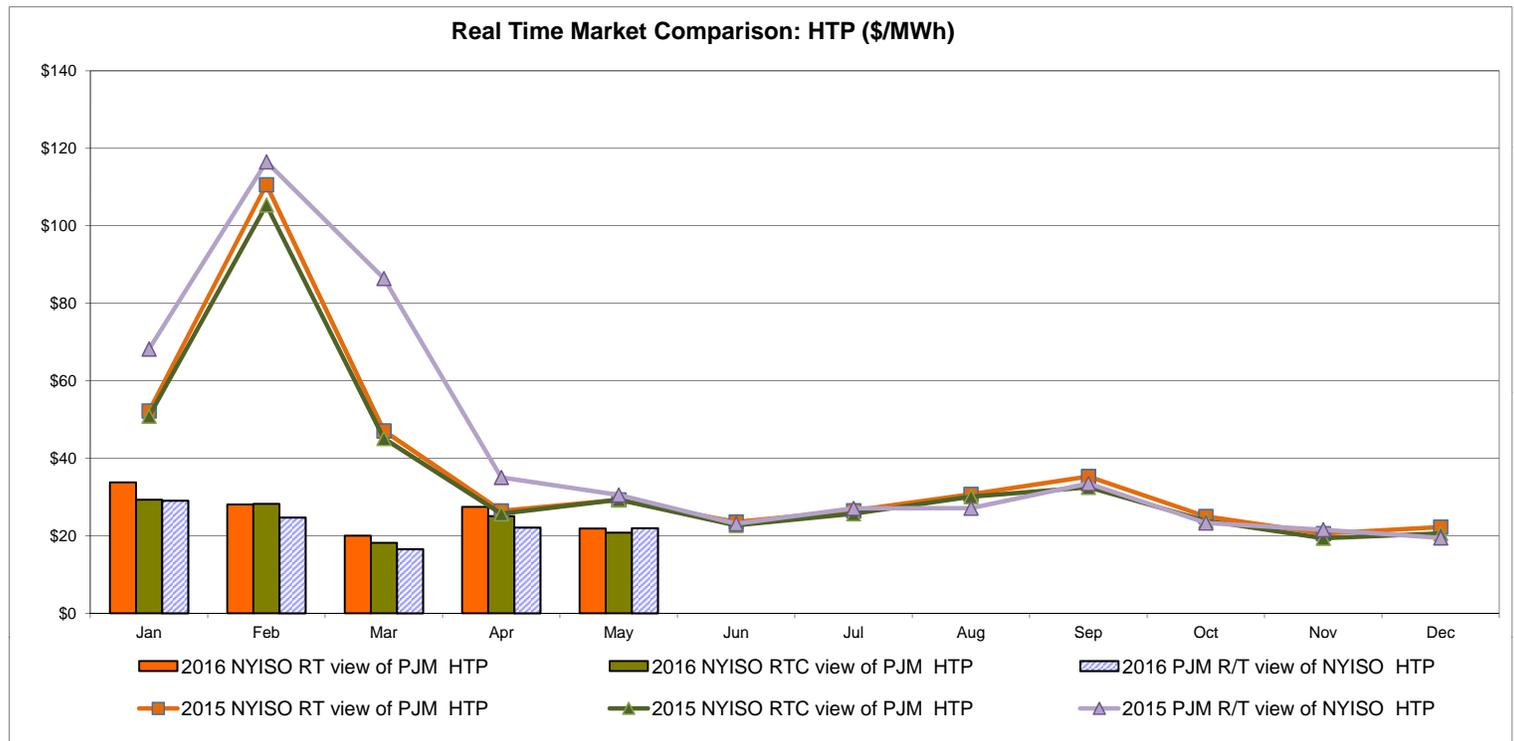
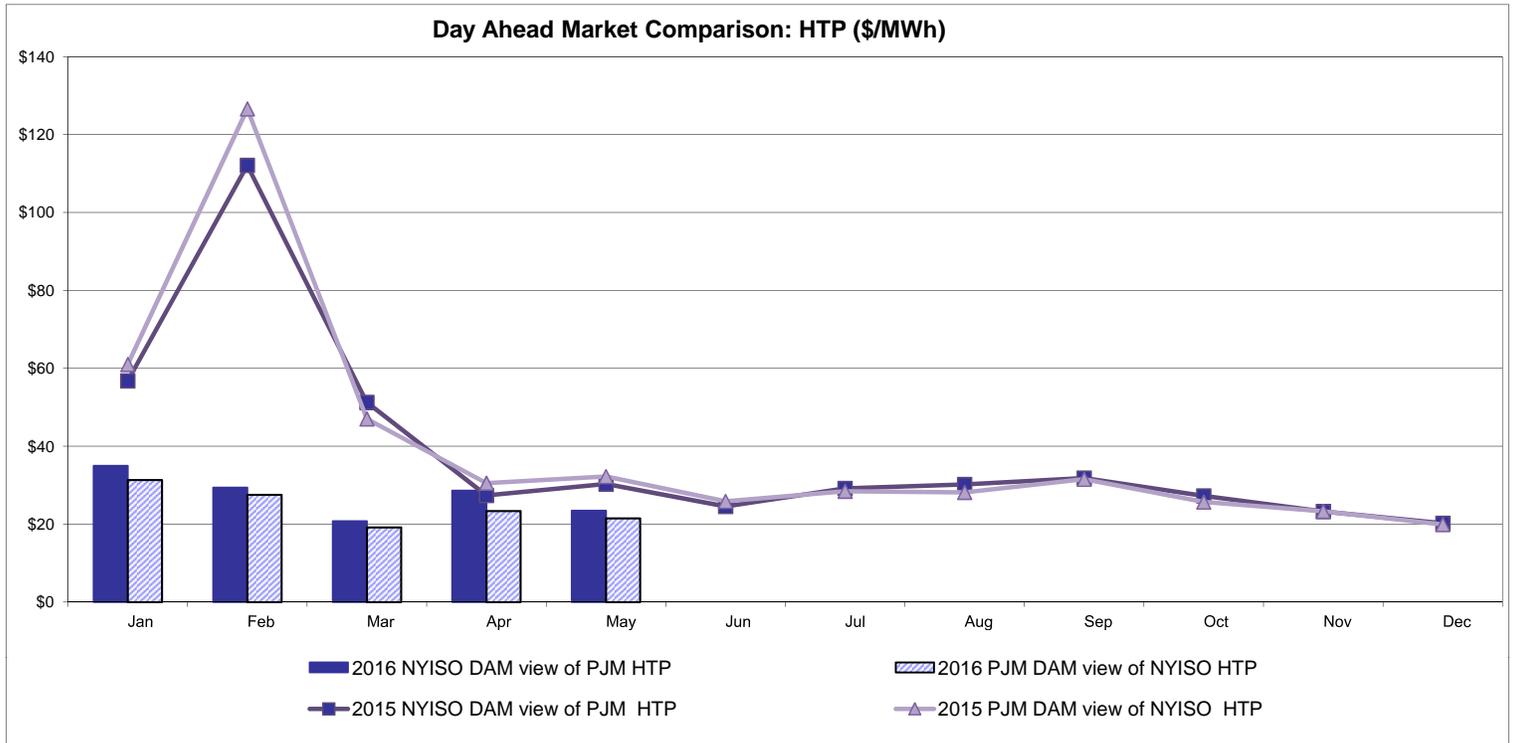


Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

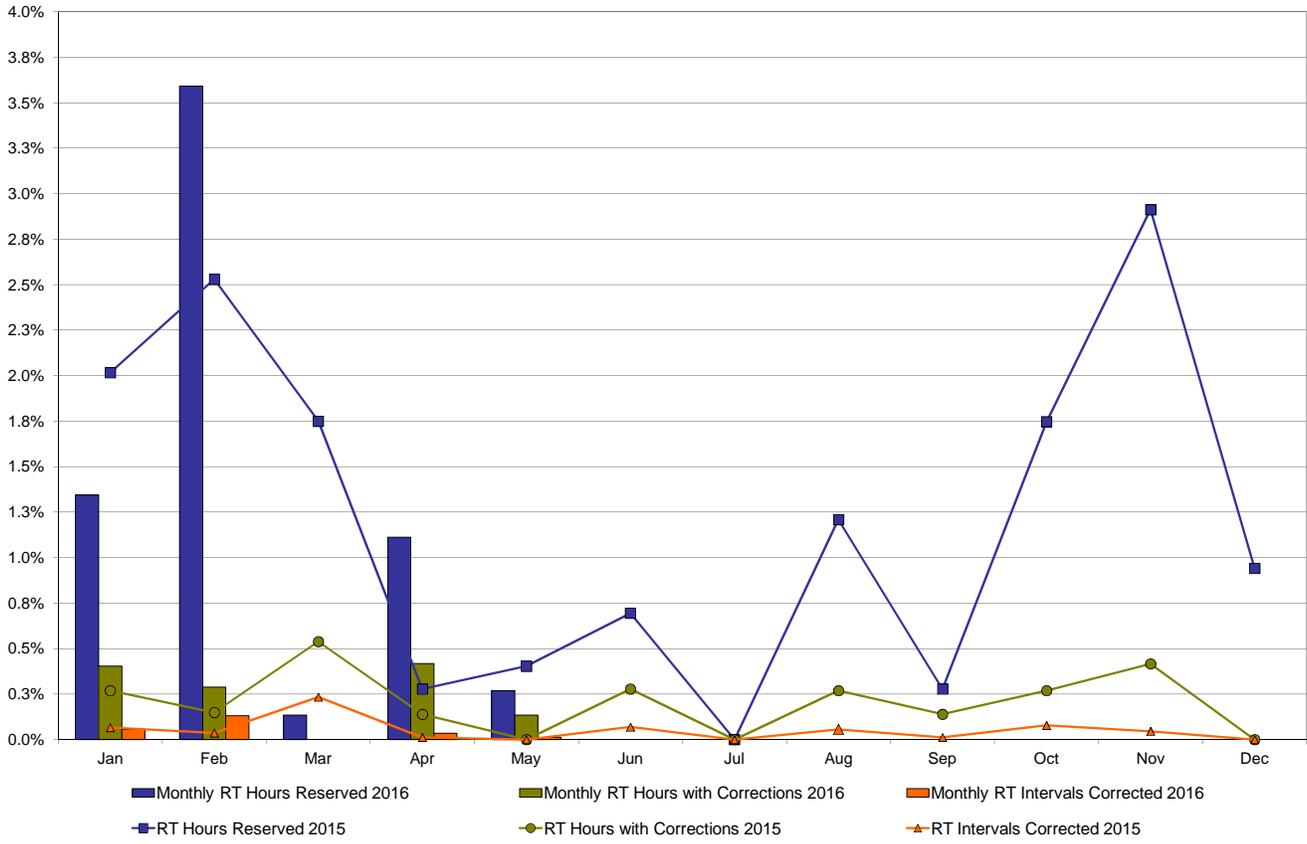


NYISO Real Time Price Correction Statistics

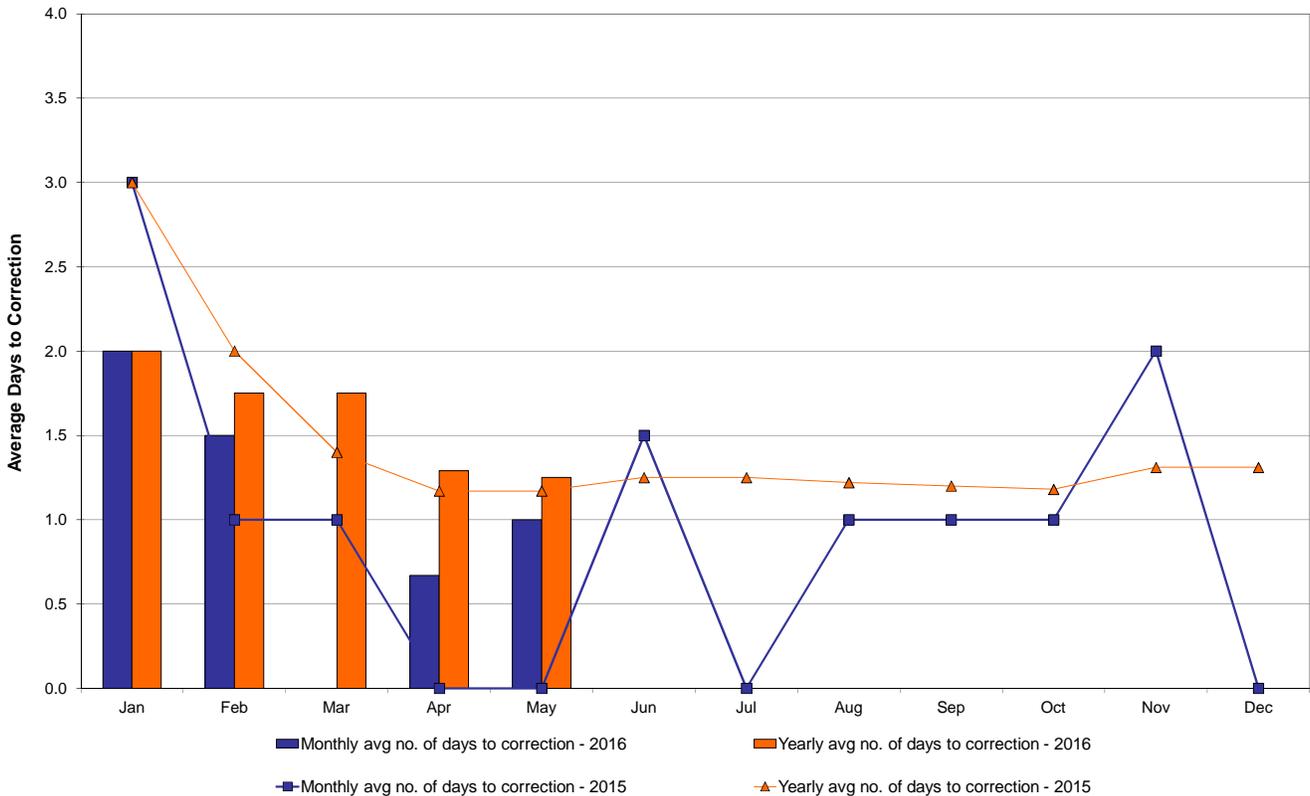
2016		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	3	2	0	3	1							
Number of hours	in the month	744	696	743	720	744							
% of hours with corrections	in the month	0.40%	0.29%	0.00%	0.42%	0.13%							
% of hours with corrections	year-to-date	0.40%	0.35%	0.23%	0.28%	0.25%							
Interval Corrections													
Number of intervals corrected	in the month	5	11	0	3	1							
Number of intervals	in the month	9,000	8,440	8,995	8,724	8,987							
% of intervals corrected	in the month	0.06%	0.13%	0.00%	0.03%	0.01%							
% of intervals corrected	year-to-date	0.06%	0.09%	0.06%	0.05%	0.05%							
Hours Reserved													
Number of hours reserved	in the month	10	25	1	8	2							
Number of hours	in the month	744	696	743	720	744							
% of hours reserved	in the month	1.34%	3.59%	0.13%	1.11%	0.27%							
% of hours reserved	year-to-date	1.34%	2.43%	1.65%	1.52%	1.26%							
Days to Correction *													
Avg. number of days to correction	in the month	2.00	1.50	0.00	0.67	1.00							
Avg. number of days to correction	year-to-date	2.00	1.75	1.75	1.29	1.25							
Days Without Corrections													
Days without corrections	in the month	29	27	31	27	30							
Days without corrections	year-to-date	29	56	87	114	144							
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	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	1	0	6	0	5	1	7	4	0
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	8,743	8,975
% 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%	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

* Calendar days from reservation date.

Percentage of Real-Time Corrections

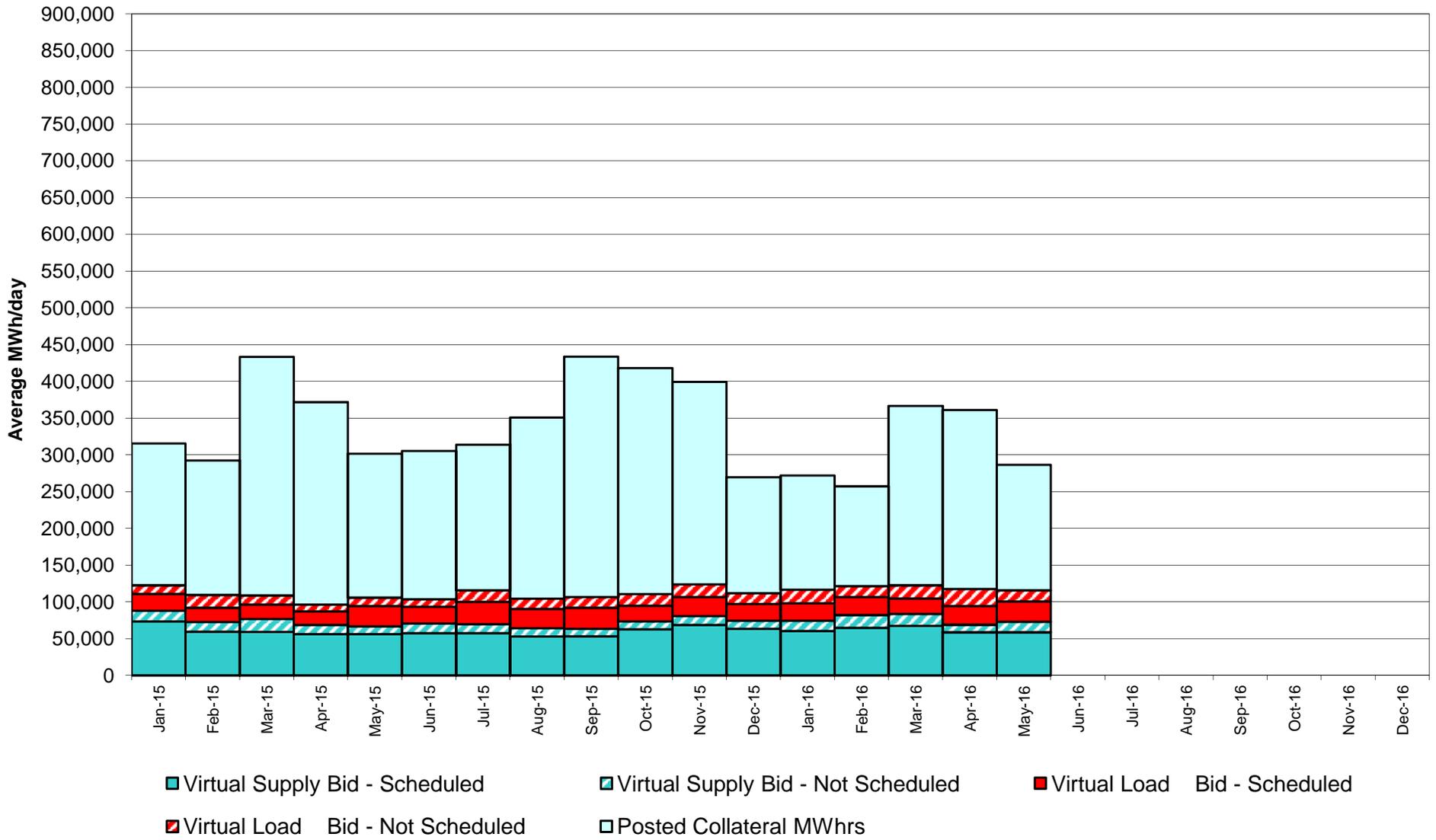


Annual average time period for making Price Corrections (from reservation date) *

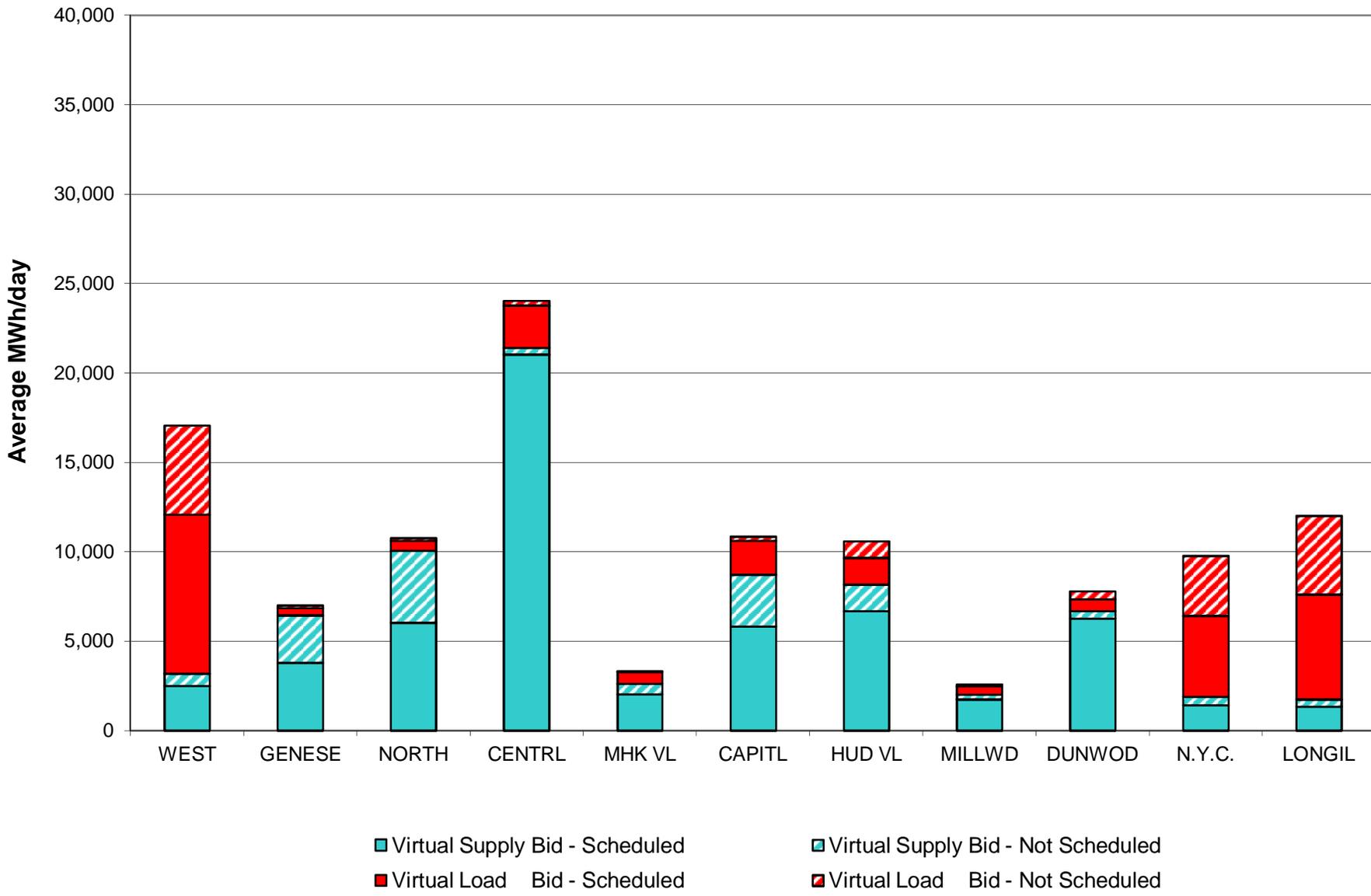


* Calendar days from reservation date.

NYISO Virtual Trading Average MWh per day



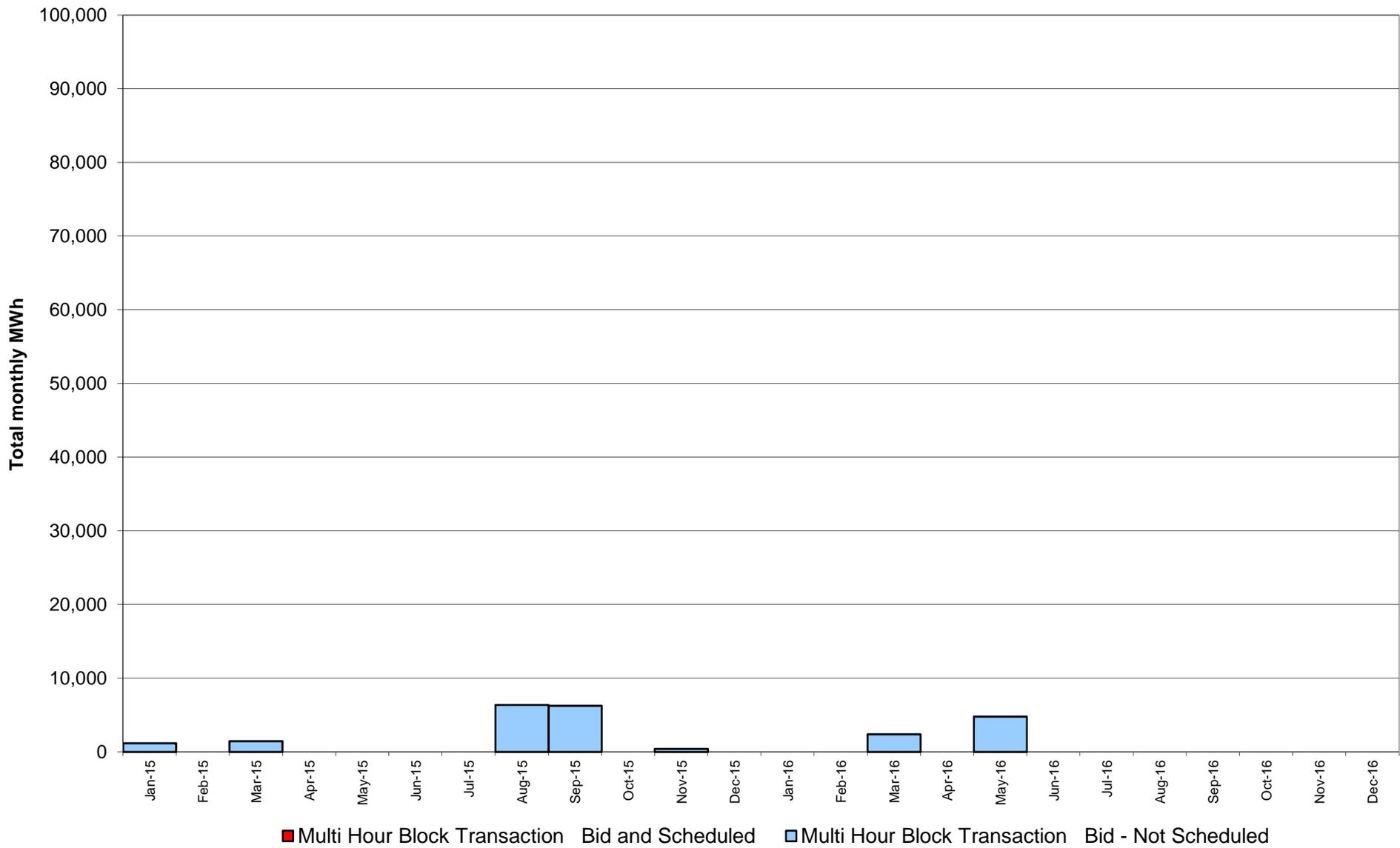
Virtual Load and Supply Zonal Statistics through May 31, 2016



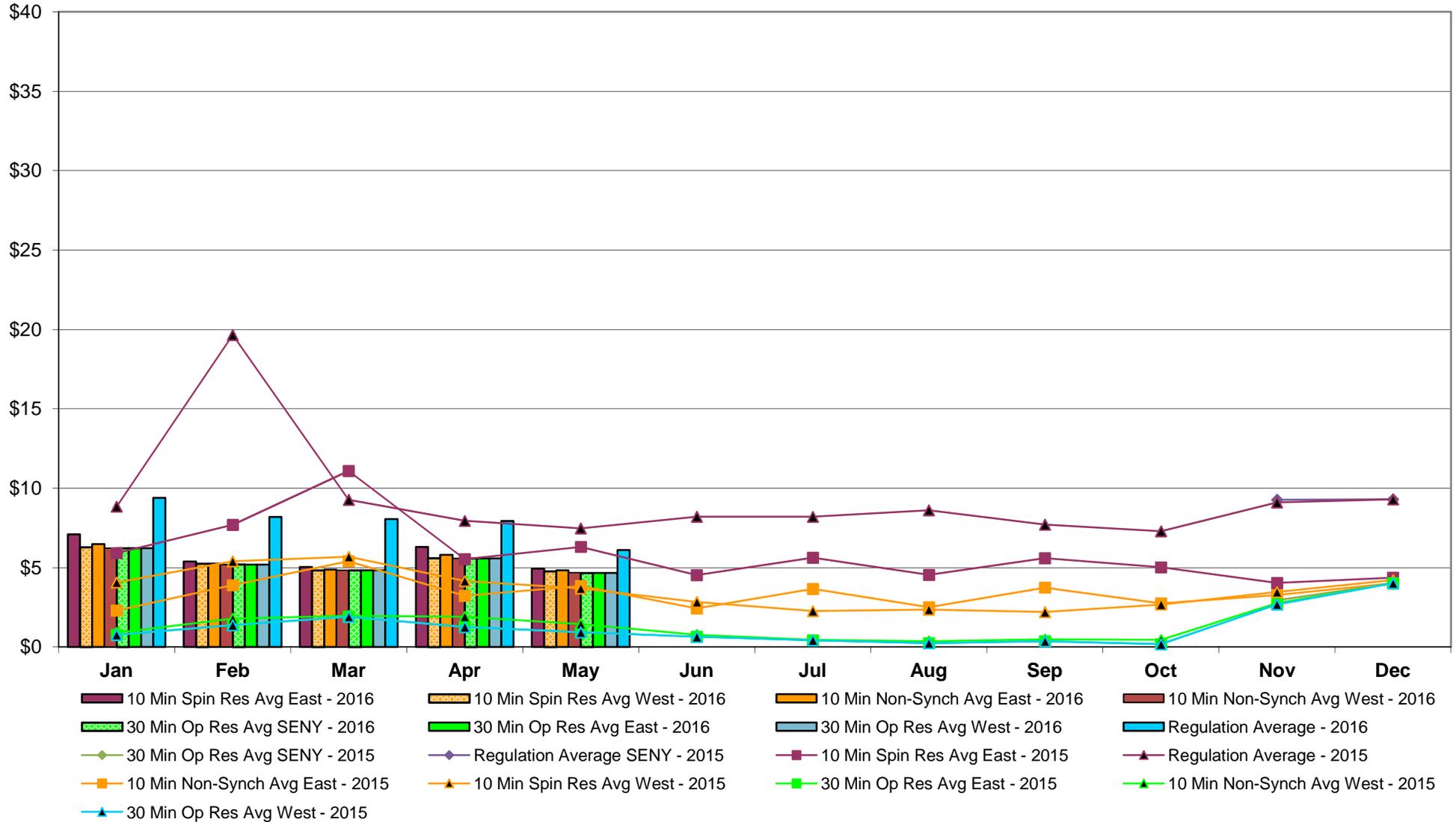
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2016

		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-16	8,416	4,440	2,862	419	MHK VL	Jan-16	463	92	2,024	146	DUNWOD	Jan-16	402	216	3,262	61		
	Feb-16	7,967	3,554	2,706	521		Feb-16	544	80	2,329	611		Feb-16	803	185	3,555	269		
	Mar-16	7,947	7,233	2,564	720		Mar-16	440	49	2,695	931		Mar-16	460	100	4,207	304		
	Apr-16	11,544	10,793	1,645	263		Apr-16	735	55	2,236	317		Apr-16	277	48	4,840	190		
	May-16	8,896	4,966	2,511	678		May-16	673	33	2,036	588		May-16	660	435	6,261	431		
	Jun-16						Jun-16						Jun-16						
	Jul-16						Jul-16						Jul-16						
	Aug-16						Aug-16						Aug-16						
	Sep-16						Sep-16						Sep-16						
	Oct-16						Oct-16						Oct-16						
	Nov-16						Nov-16						Nov-16						
	Dec-16						Dec-16						Dec-16						
	GENESE	Jan-16	1,030	638	3,868		2,421	CAPITL	Jan-16	2,195	1,472		4,568	3,470	N.Y.C.	Jan-16	2,862	4,976	2,531
Feb-16		795	923	3,461	3,707	Feb-16	1,593		684	5,140	3,581	Feb-16	3,281	4,752		2,390	403		
Mar-16		824	1,113	5,340	3,764	Mar-16	960		238	5,023	2,071	Mar-16	1,838	4,229		1,239	748		
Apr-16		448	1,398	6,028	1,718	Apr-16	1,410		198	6,433	1,645	Apr-16	3,263	4,302		1,221	336		
May-16		411	125	3,793	2,664	May-16	1,885		251	5,843	2,876	May-16	4,517	3,352		1,425	472		
Jun-16						Jun-16						Jun-16							
Jul-16						Jul-16						Jul-16							
Aug-16						Aug-16						Aug-16							
Sep-16						Sep-16						Sep-16							
Oct-16						Oct-16						Oct-16							
Nov-16						Nov-16						Nov-16							
Dec-16						Dec-16						Dec-16							
NORTH		Jan-16	274	312	7,038	3,010	HUD VL		Jan-16	1,036	1,609	6,763	2,202	LONGIL		Jan-16	6,153	3,761	700
	Feb-16	499	215	7,169	3,894	Feb-16		1,008	1,135	9,550	3,078	Feb-16	6,539		3,211	814	869		
	Mar-16	338	107	6,127	4,874	Mar-16		964	510	10,835	1,568	Mar-16	6,305		3,906	1,090	411		
	Apr-16	666	332	8,237	3,363	Apr-16		821	1,176	9,231	1,566	Apr-16	5,087		4,696	1,511	215		
	May-16	556	157	6,029	4,034	May-16		1,488	911	6,686	1,490	May-16	5,837		4,419	1,331	431		
	Jun-16					Jun-16						Jun-16							
	Jul-16					Jul-16						Jul-16							
	Aug-16					Aug-16						Aug-16							
	Sep-16					Sep-16						Sep-16							
	Oct-16					Oct-16						Oct-16							
	Nov-16					Nov-16						Nov-16							
	Dec-16					Dec-16						Dec-16							
	CENTRL	Jan-16	954	502	25,792	259		MILLWD	Jan-16	304	114	1,211	60		NYISO	Jan-16	24,086	18,132	60,619
Feb-16		975	212	26,176	301	Feb-16	403		145	1,477	100	Feb-16	24,407	15,096		64,766	17,335		
Mar-16		1,076	70	26,818	564	Mar-16	182		60	1,462	239	Mar-16	21,332	17,615		67,399	16,195		
Apr-16		1,124	159	15,555	284	Apr-16	186		26	1,913	101	Apr-16	25,563	23,182		58,849	9,998		
May-16		2,369	250	21,046	367	May-16	471		121	1,743	264	May-16	27,763	15,021		58,704	14,296		
Jun-16						Jun-16						Jun-16							
Jul-16						Jul-16						Jul-16							
Aug-16						Aug-16						Aug-16							
Sep-16						Sep-16						Sep-16							
Oct-16						Oct-16						Oct-16							
Nov-16						Nov-16						Nov-16							
Dec-16						Dec-16						Dec-16							

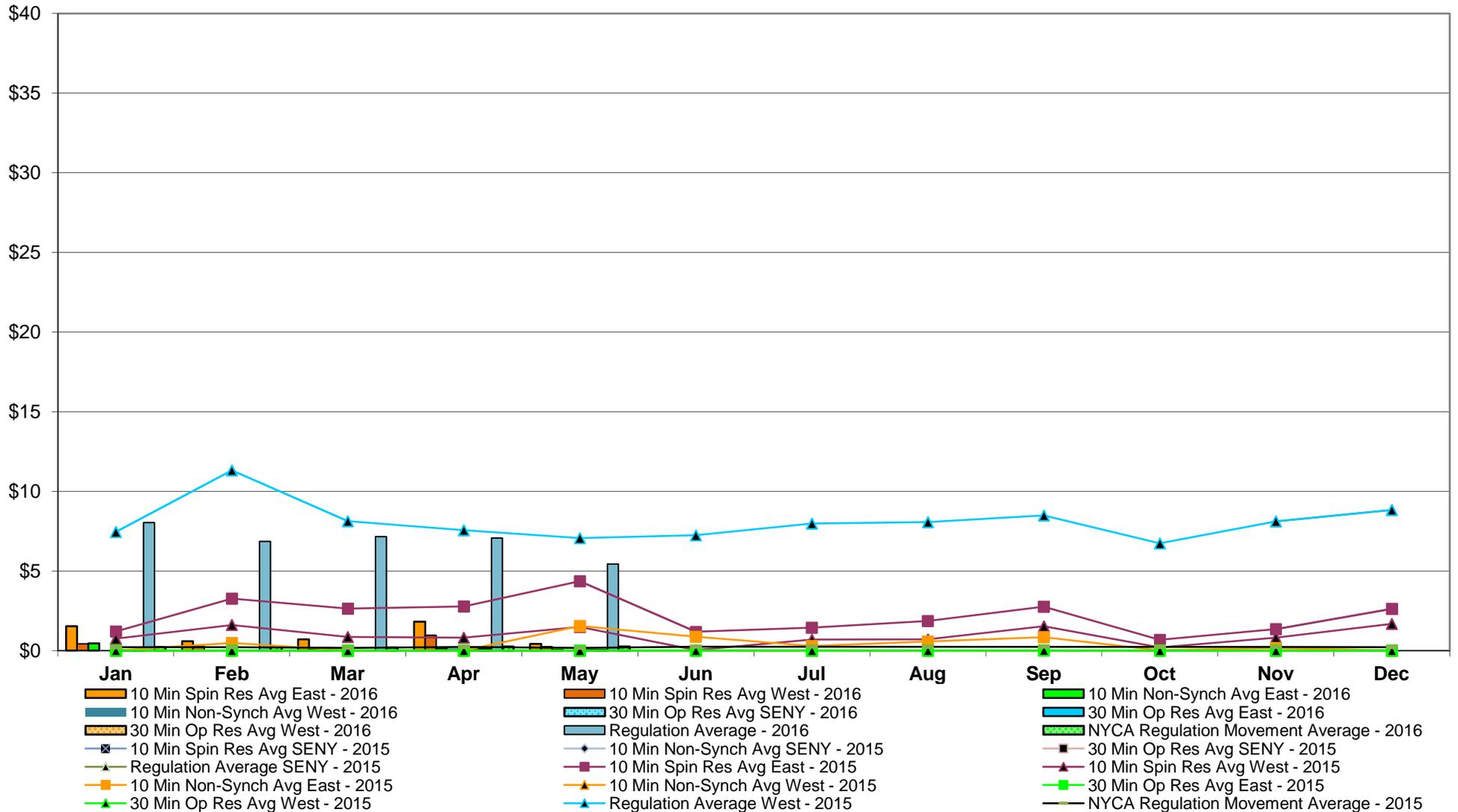
NYISO Multi Hour Block Transactions Monthly Total MWh



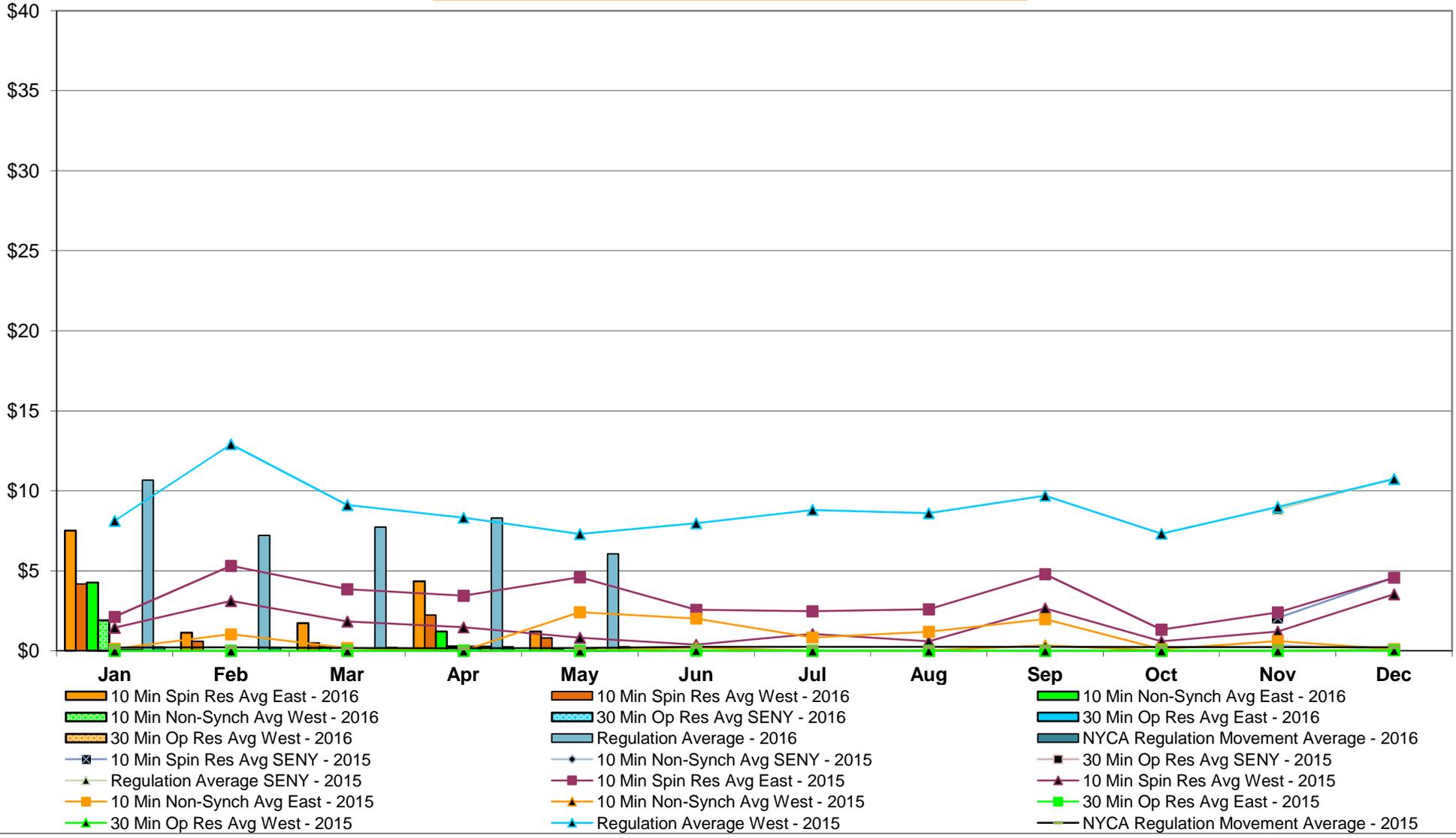
NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2015 - 2016



NYISO Monthly Average Ancillary Service Prices RTC Market 2015 - 2016



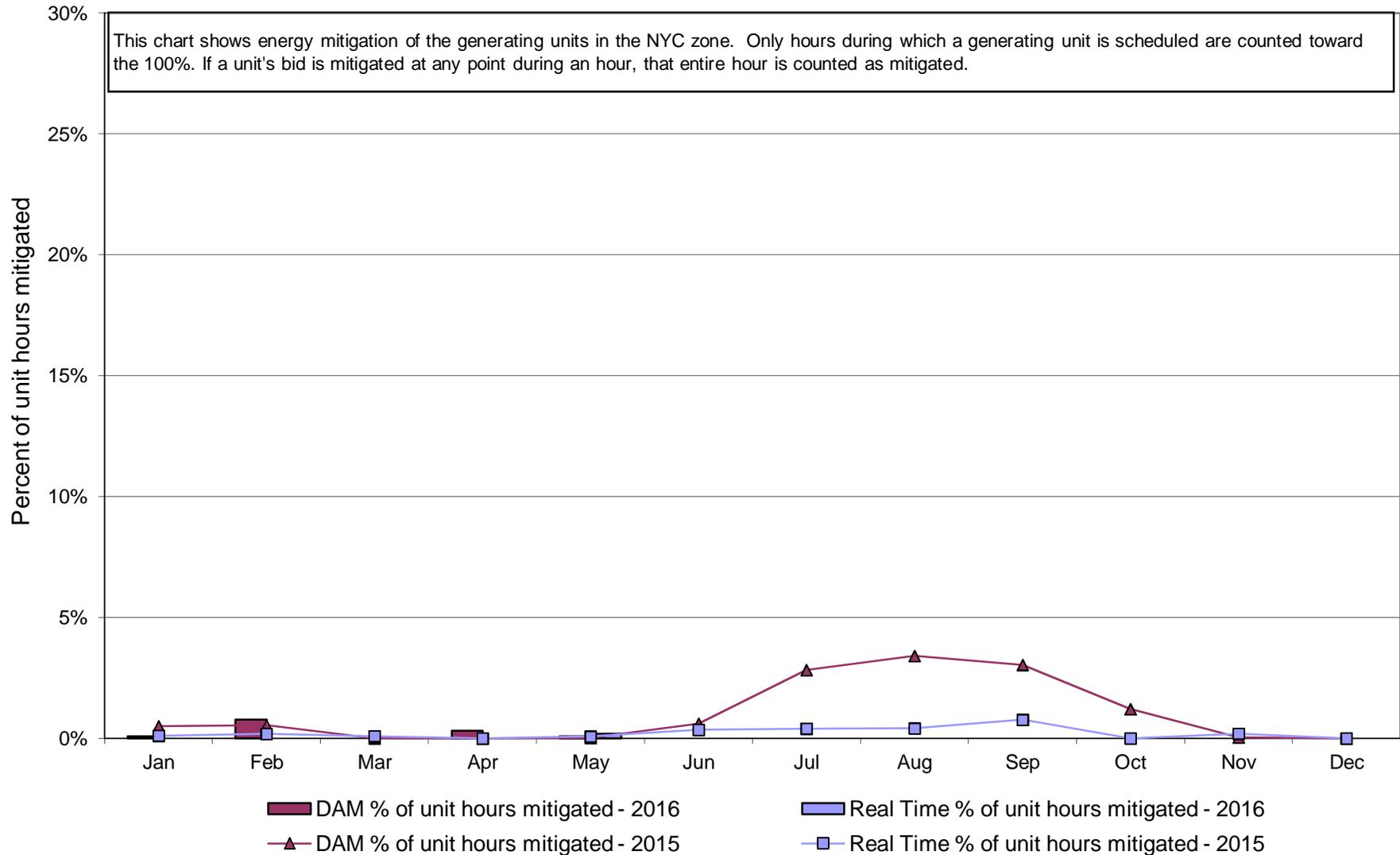
NYISO Monthly Average Ancillary Service Prices Real Time Market 2015 - 2016



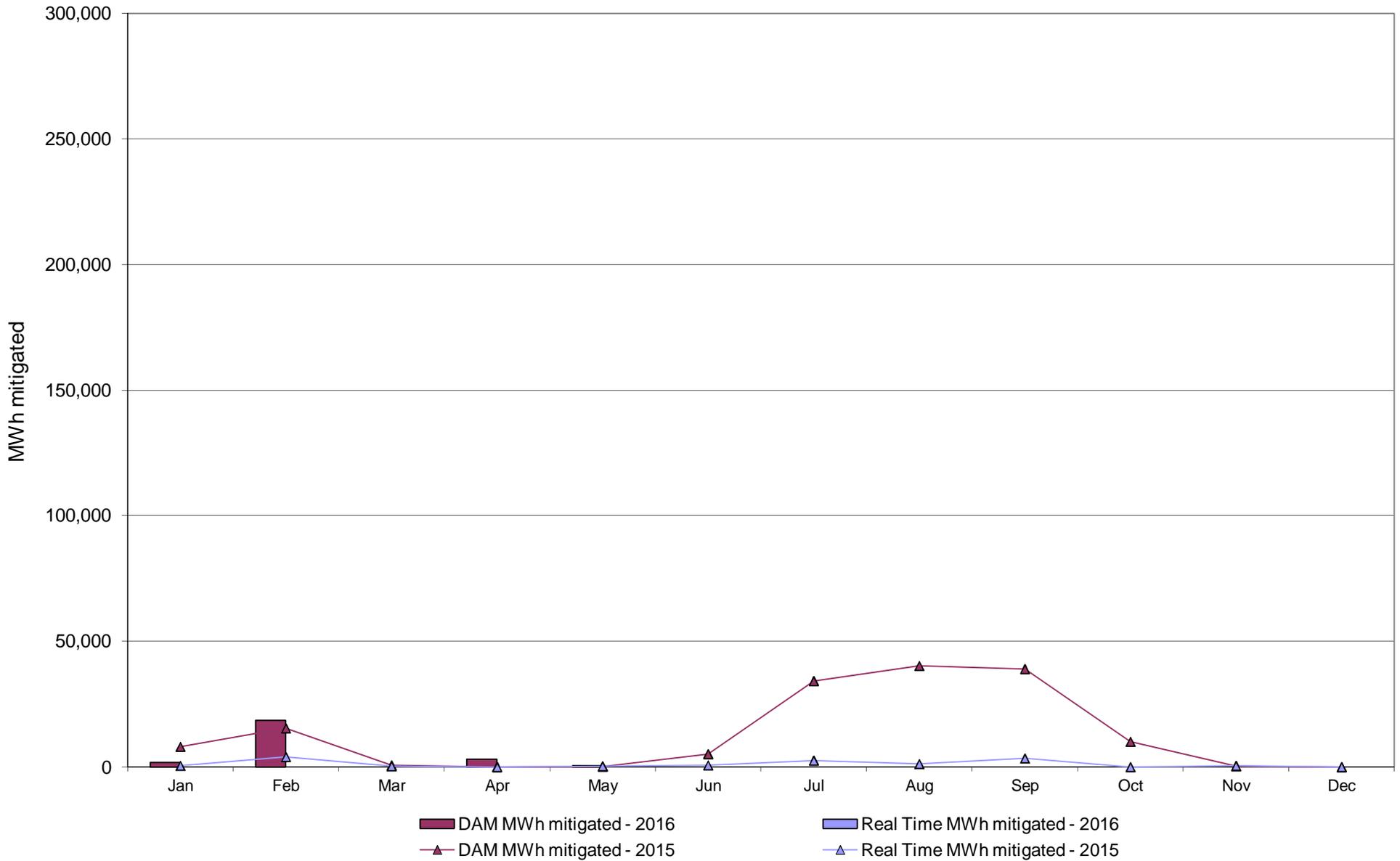
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

2016	<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	7.09	5.38	5.04	6.31	4.93							
10 Min Spin West	6.28	5.25	4.84	5.60	4.77							
10 Min Non Synch East	6.47	5.25	4.88	5.80	4.83							
10 Min Non Synch West	6.23	5.20	4.84	5.58	4.68							
30 Min SENY	6.23	5.20	4.84	5.58	4.67							
30 Min East	6.23	5.20	4.84	5.58	4.67							
30 Min West	6.23	5.20	4.84	5.58	4.67							
Regulation	9.39	8.19	8.05	7.93	6.11							
RTC Market												
10 Min Spin East	1.53	0.59	0.71	1.81	0.43							
10 Min Spin West	0.42	0.26	0.08	0.95	0.23							
10 Min Non Synch East	0.45	0.00	0.17	0.14	0.05							
10 Min Non Synch West	0.04	0.00	0.00	0.14	0.04							
30 Min SENY	0.01	0.00	0.00	0.14	0.04							
30 Min East	0.01	0.00	0.00	0.14	0.04							
30 Min West	0.01	0.00	0.00	0.14	0.04							
Regulation	8.04	6.86	7.15	7.07	5.43							
NYCA Regulation Movement	0.23	0.21	0.20	0.25	0.25							
Real Time Market												
10 Min Spin East	7.51	1.12	1.73	4.34	1.19							
10 Min Spin West	4.17	0.58	0.48	2.23	0.79							
10 Min Non Synch East	4.26	0.00	0.22	1.20	0.06							
10 Min Non Synch West	1.89	0.00	0.00	0.26	0.03							
30 Min SENY	0.06	0.00	0.00	0.25	0.03							
30 Min East	0.06	0.00	0.00	0.25	0.03							
30 Min West	0.06	0.00	0.00	0.25	0.03							
Regulation	10.66	7.21	7.73	8.30	6.06							
NYCA Regulation Movement	0.23	0.22	0.20	0.25	0.25							
2015												
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	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

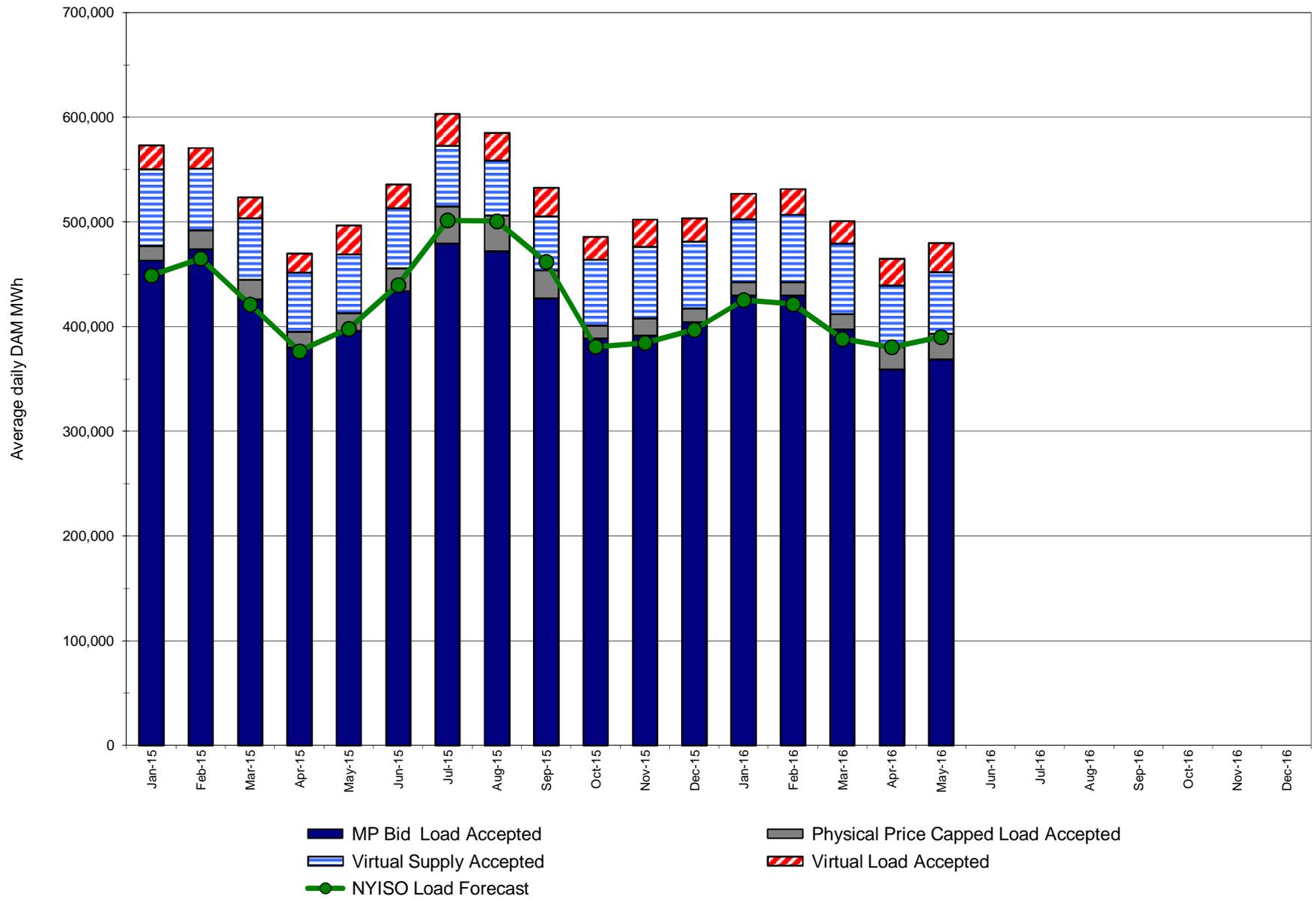
NYISO In City Energy Mitigation - AMP (NYC Zone) 2015 - 2016 Percentage of committed unit-hours mitigated



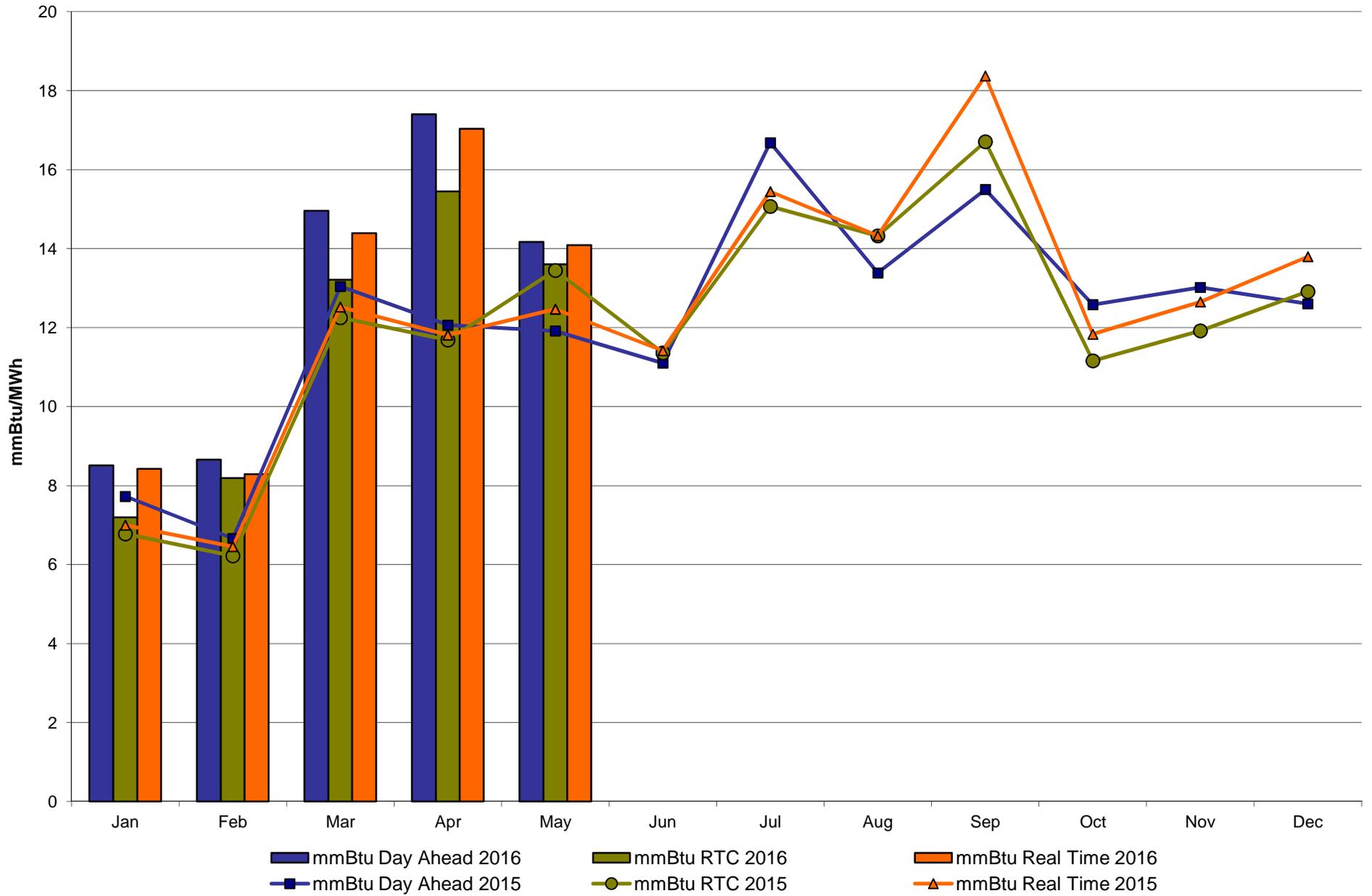
NYISO In City Energy Mitigation (NYC Zone) 2015 - 2016
Monthly megawatt hours mitigated



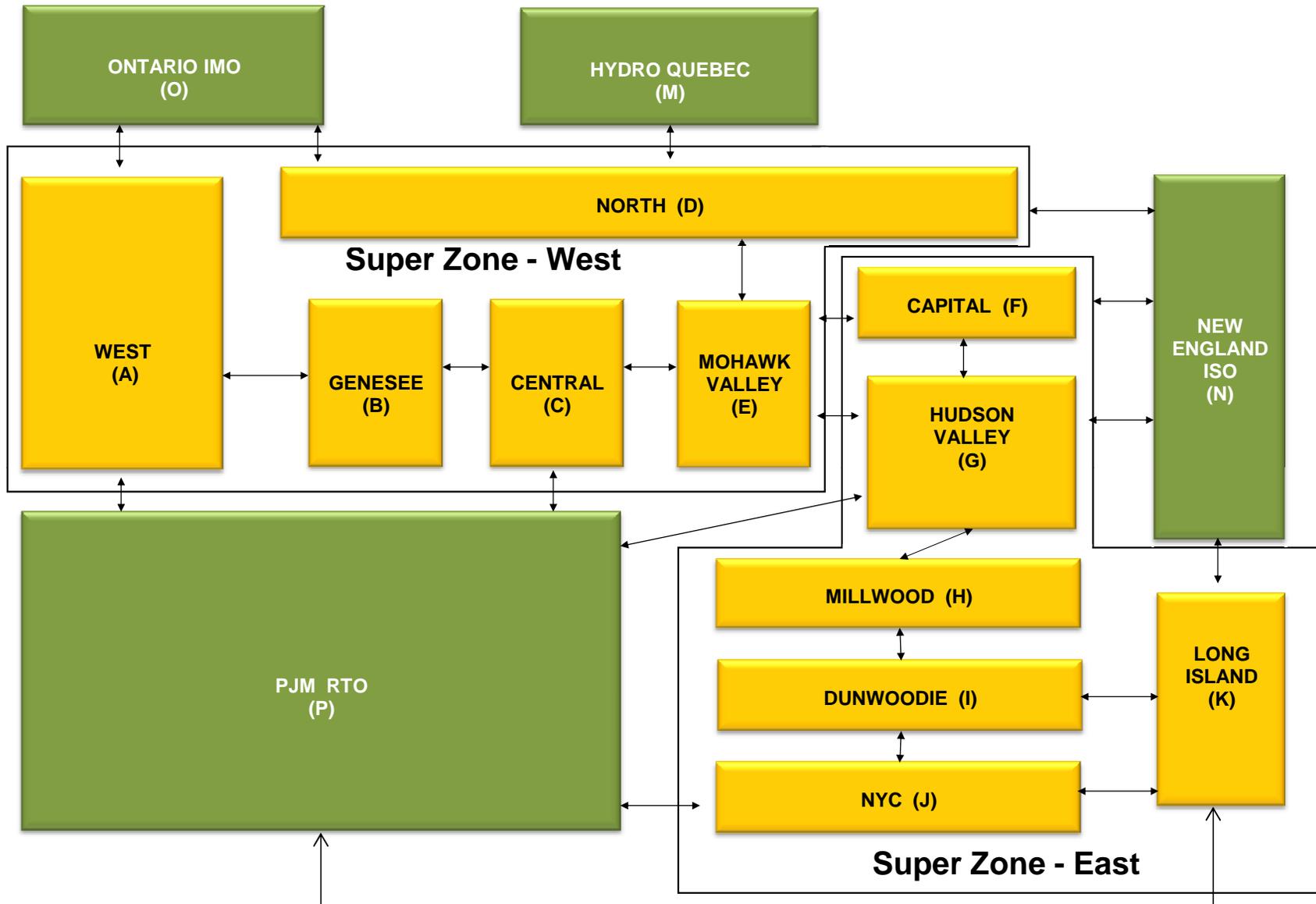
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2015-2016



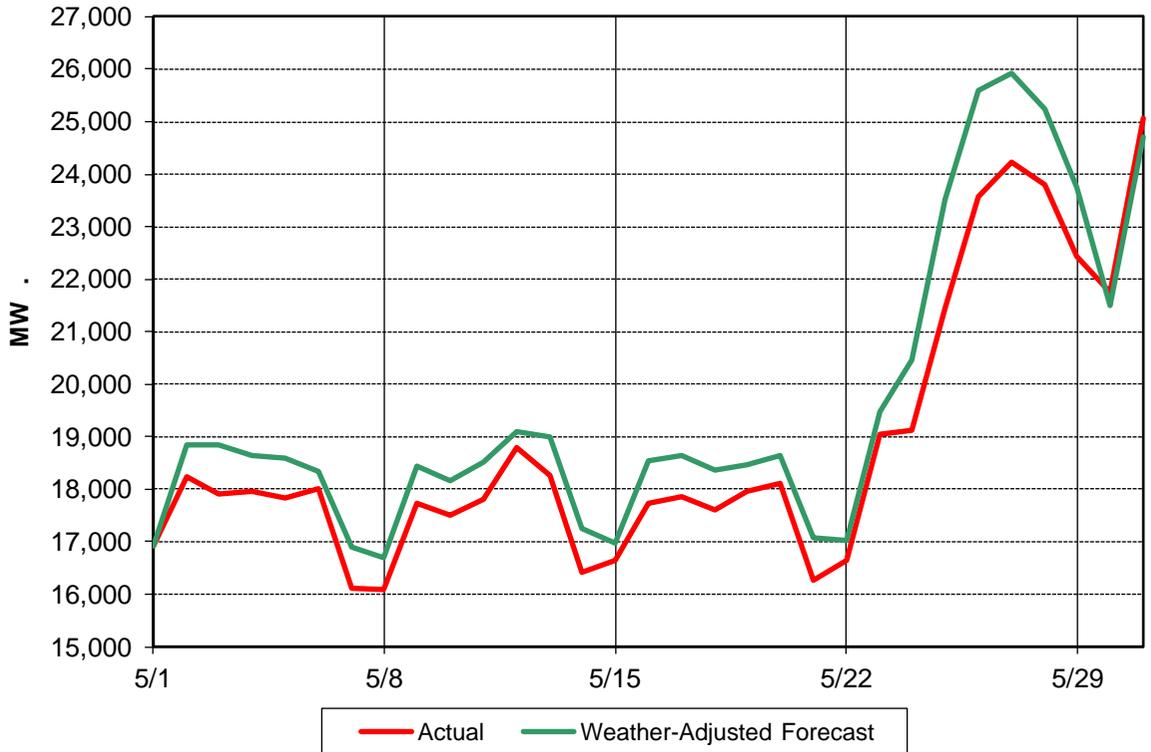
NYISO LBMP ZONES



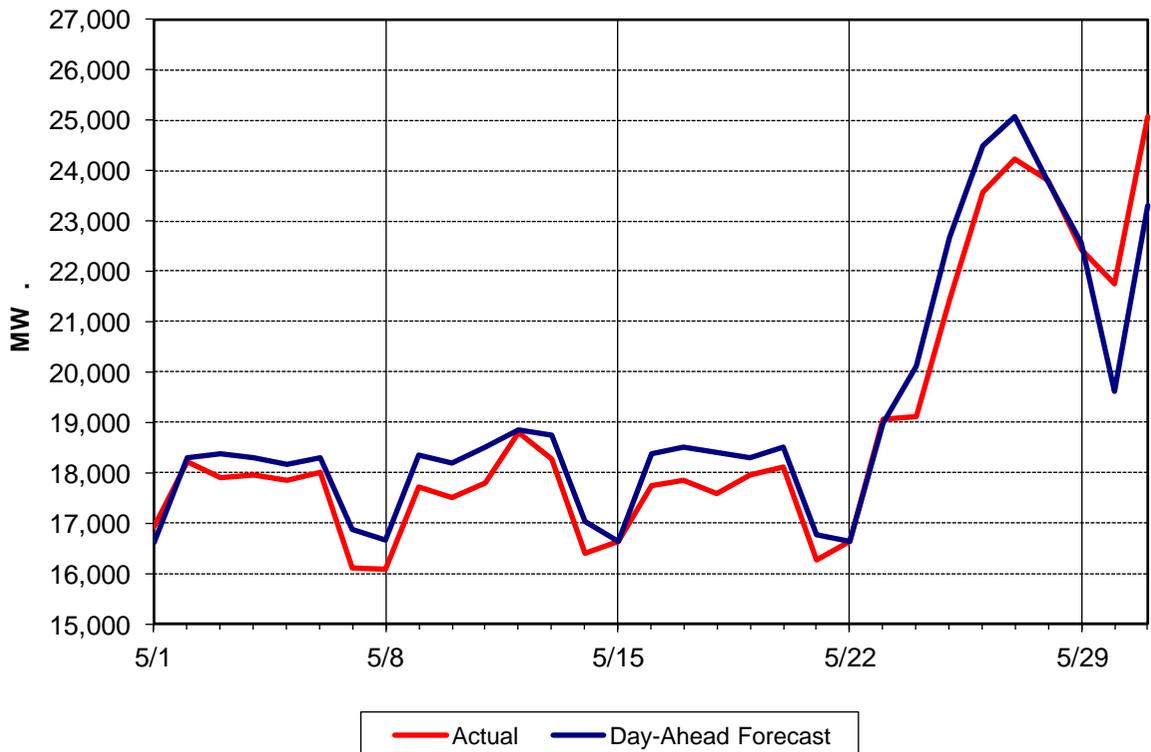
Billing Codes for Chart C

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

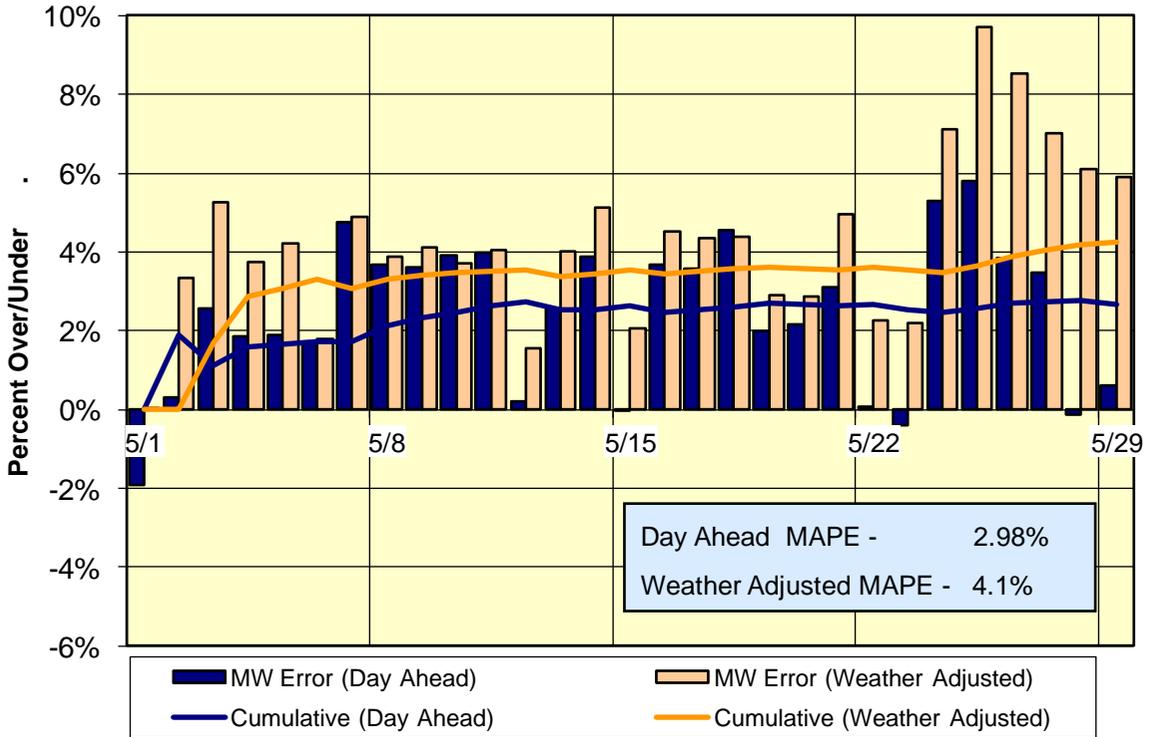
**NYISO Daily Peak Load - May 2016
Actual vs. Weather-Adjusted Forecast**



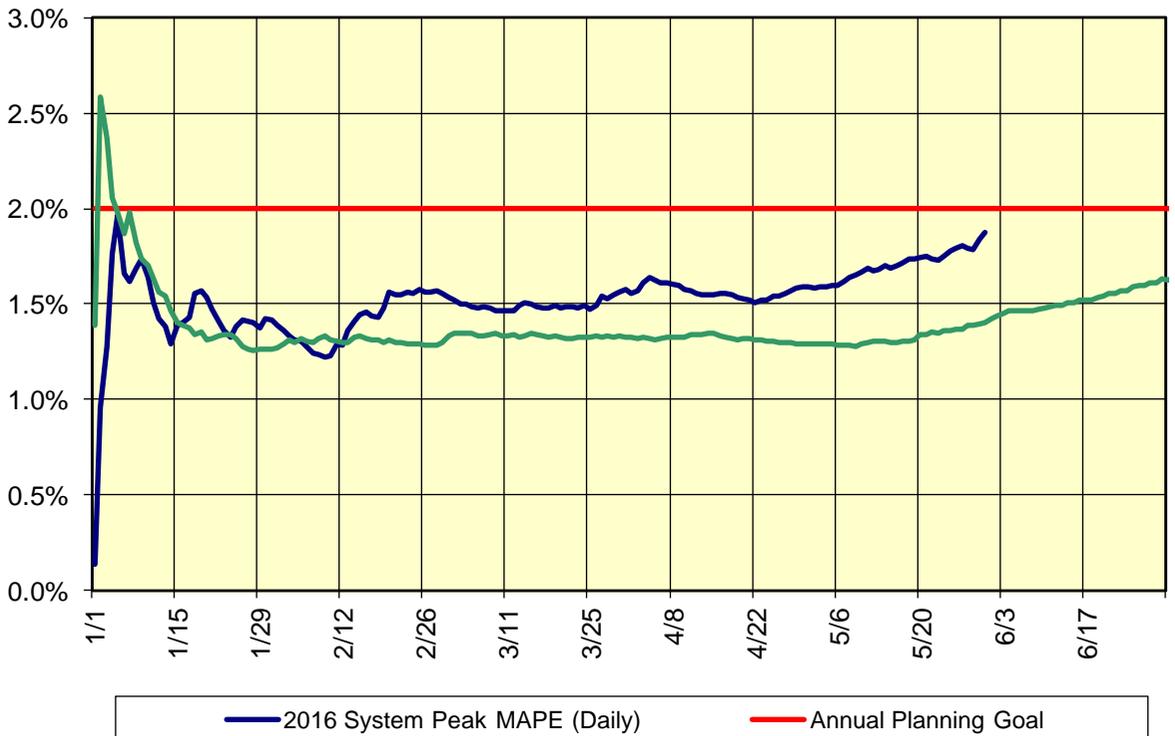
**NYISO Daily Peak Load - May 2016
Actual vs. Forecast**



Day Ahead Peak Forecast - May 2016 Percent Error - Actual & Weather Adjusted



Day-Ahead Forecast Accuracy - Cumulative Performance 2016 Year-to-Date



Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – May 2016

Filing Date	Filing Summary	Docket	Order Date	Order Summary
03/11/2016	NYISO compliance filing re: to add a verification requirement to the exemption from physical withholding evaluation for generators that indicate they are unable to provide output in the RTM because doing so would require the Generator to burn unauthorized natural gas	ER16-168-002	05/19/2016	FERC letter order accepted compliance filing effective 02/18/2016, as requested
03/17/2016	NYISO 205 filing re: OATT and Services Tariff revisions to incorporate Behind-the-Meter Net Generation Resources into the NYISO's Energy, Ancillary Services and Capacity Markets	ER16-1213-000	05/17/2016	FERC order accepted the revisions to become effective 05/19/2016, as requested and other revisions to be effective 10/01/2016, as requested subject to certain conditions
03/18/2016	NYISO filing re: an executed transmission facility interconnection agreement (Service Agreement No. 2257) among NYISO, NYSEG, and Trans-Allegheny Interstate Line Company	ER16-1230-000	05/06/2016	FERC letter order accepted SA 2257 effective 03/19/2016, as requested
03/28/2016	NYISO filing re: report on the results of its triennial New Capacity Zone Study	ER16-1280-000	05/27/2016	FERC letter order accepted the report for informational purposes
05/02/2016	NYISO compliance filing re: remove certain rejected tariff language from Section 31.4 of the OATT and correct the tariff language in Section 6.1.6 of the OATT	ER13-1942-003		
05/02/2016	NYISO letter to FERC Chairman Bay re: in support of a request by NYPSC Chair Zibelman that the FERC issue a final order in the MISO ITC PARs proceeding	ER11-1844-002		
05/05/2016	NYISO filing re: proposed revisions to the Rules to Allocate Responsibility for the Cost of New Interconnection Facilities in Attachment S of the NYISO OATT	ER16-1627-000		
05/11/2016	NYISO filing re: notice of cancellation concerning a Large Generator Interconnection Agreement among the NYISO, Niagara Mohawk and Roaring Brook	ER6-1664-000		
05/13/2016	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 04/30/2016	PSC Matter No. 10-02007		

05/13/2016	NYISO filing re: motion to dismiss the Boundless Energy 78/PSL petition to vacate the NYPSC's 12/17/2015 Order identifying an AC transmission need	NYS Supreme Court 1200-16		
05/16/2016	NYISO filing re: response to FERC data request concerning electric storage participation in wholesale electric markets	AD16-20-000		
05/18/2016	NYISO confidential filing to the NYPSC re: final agreement associated with the credit facilities authorized by the 03/18/2016 PSC Order concerning NYISO's petition to incur indebtedness for a term in excess of twelve months	PSC Case No. 15-E-0655		
05/18/2016	NYISO filing re: request for clarification or rehearing concerning a limited aspect of FERC's 04/18/2016 Order on proposed public policy process tariff revisions	ER16-966-002		
05/18/2016	NYISO compliance filing re: requirements of the Public Policy Transmission Planning Process directed by FERC's 04/18/2016 Order	ER16-966-001		
05/19/2016	NYISO filing re: motion requesting an extension of the compliance deadline to file additional revisions to several aspects of the proposed reliability must run tariff provisions	ER16-120-000	05/26/2016	FERC notice granted the extension request up to and including 09/19/2016
05/20/2016	NYISO 205 filing re: tariff revisions to implement certain enhancements to the process for conducting periodic reviews of the ICAP Demand Curves	ER16-1751-000		
05/20/2016	NYISO filing to the NYPSC re: verified report regarding the costs and expenses associated with the credit facilities authorized by the 03/18/2016 PSC Order concerning NYISO's petition to incur indebtedness for a term in excess of twelve months	PSC Case No. 15-E-0655		
05/23/2016	IRC filing re: comments on the proposal to modify the <i>pro forma</i> SGIA to require newly interconnecting small generating facilities that are subject to ISO/RTO interconnection procedures to ride through abnormal frequency and voltage events and not disconnect during such events	RM16-8-000		
05/23/2016	NYISO filing re: request for rehearing and clarification of the 04/21/2016 order concerning reliability must run generators	ER16-120-000		
05/24/2016	NYISO filing re: errata to the 03/22/2016 Order No. 1000 compliance filing to correct minor, inadvertent tariff revision errors and to realign tariff sections with correct tariff record identifiers	ER13-102-010		

05/25/2016	NYISO 205 filing re: Operating Agreement between NYISO and New York Transco, LLC	ER16-1785-000		
05/26/2016	NYISO errata filing re: refiling of the Operating Agreement between NYISO and New York Transco, LLC to submit a complete set of attachments	ER16-1785-001		
05/26/2016	NYISO filing re: response to data request concerning proposed tariff revisions to improve the scarcity pricing logic	ER16-425-001		
05/27/2016	NYISO filing re: FERC Form No. 714 - Annual Electric Balancing Authority Area and Planning Area Report (calendar year 2015)	No Docket No.		
05/27/2016	NYISO filing re: FERC Form 3Q Quarterly financial report for electric utilities, licensees, and natural gas companies for 2016/Q1	No Docket No.		