



Monthly Report

June 2016

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Operations Performance Metrics Monthly Report



June 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 July 11, 2016.

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June 2016 Operations Performance Highlights

- Peak load of 26,286 MW occurred on 06/20/2016 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 4 hours of Thunder Storm Alerts were declared
- 3 hours of NERC TLR level 3 curtailment
- Scarcity pricing deployed 6/21/2016
- On 6/24/2016 a fire destroyed the Ramapo PAR 3500. The Ramapo PAR scheduling ratio is now 46% and PJM-NY TTC is reduced by 400 MW.
- Implemented changes to Real Time Market LEC modeling on 6/28/2016
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

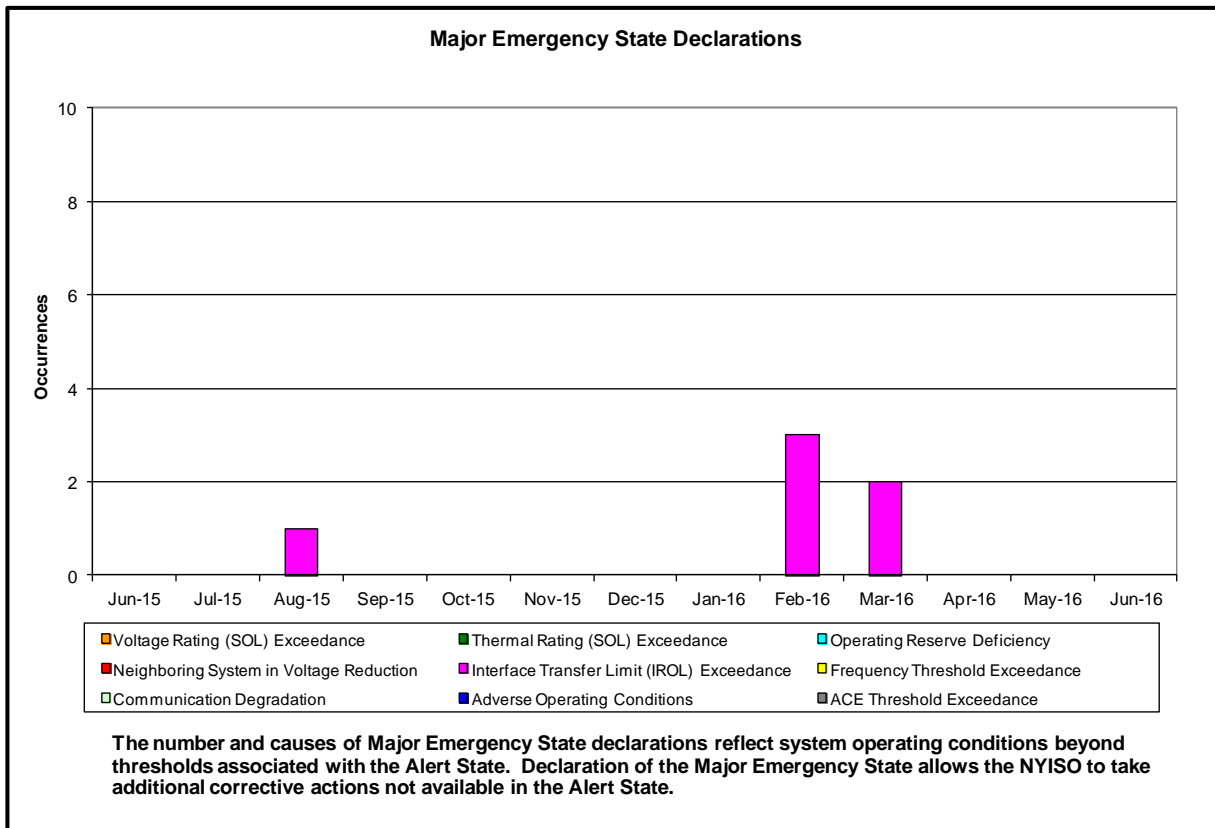
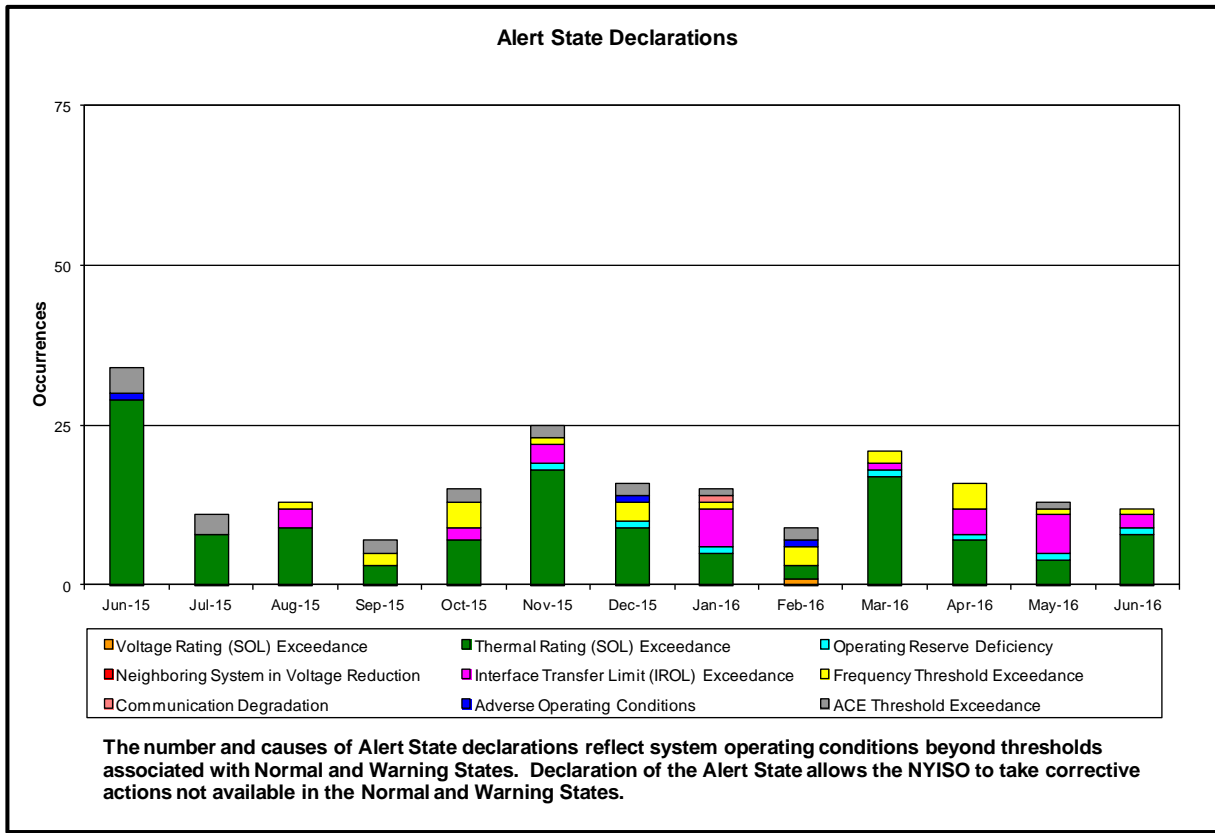
	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.26	\$14.42
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.01)	\$0.11
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.15)	(\$1.00)
Total NY Savings	\$0.10	\$13.53
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.19	\$1.11
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.12	\$0.78
Total Regional Savings	\$0.31	\$1.89

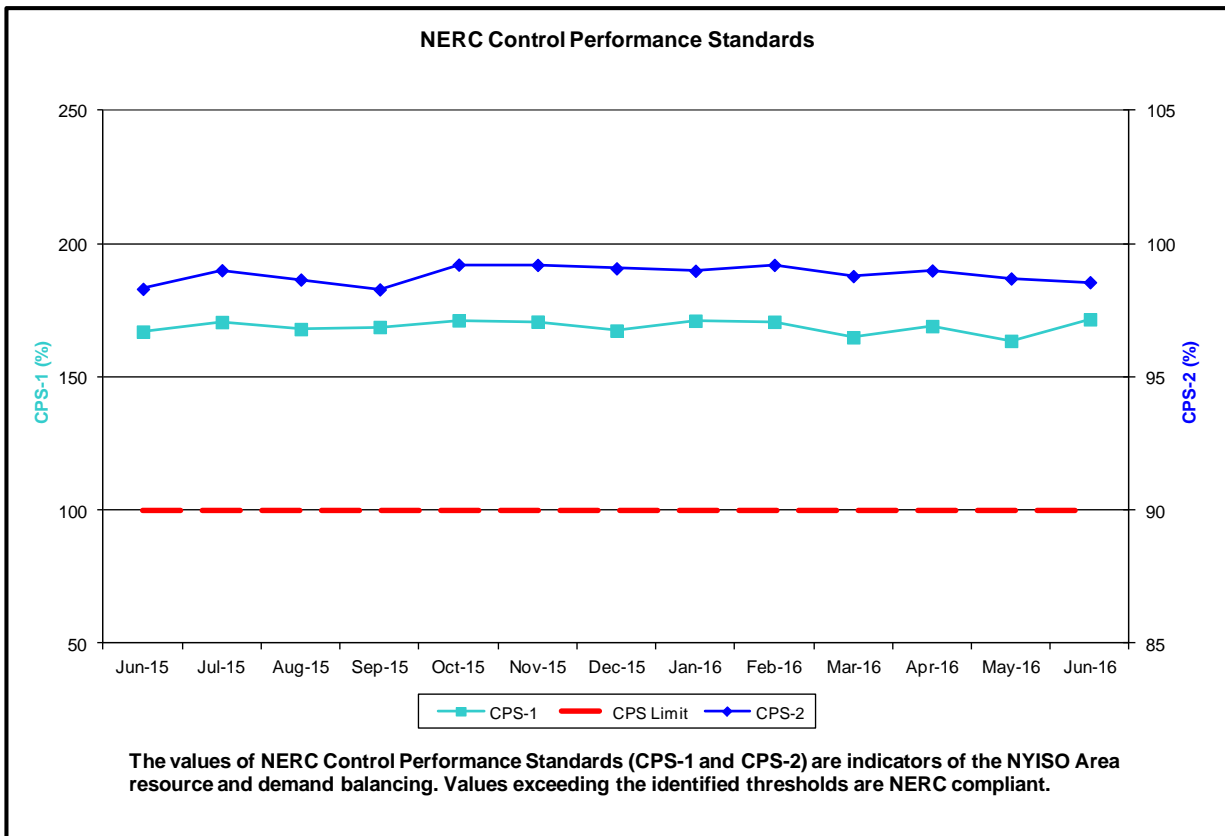
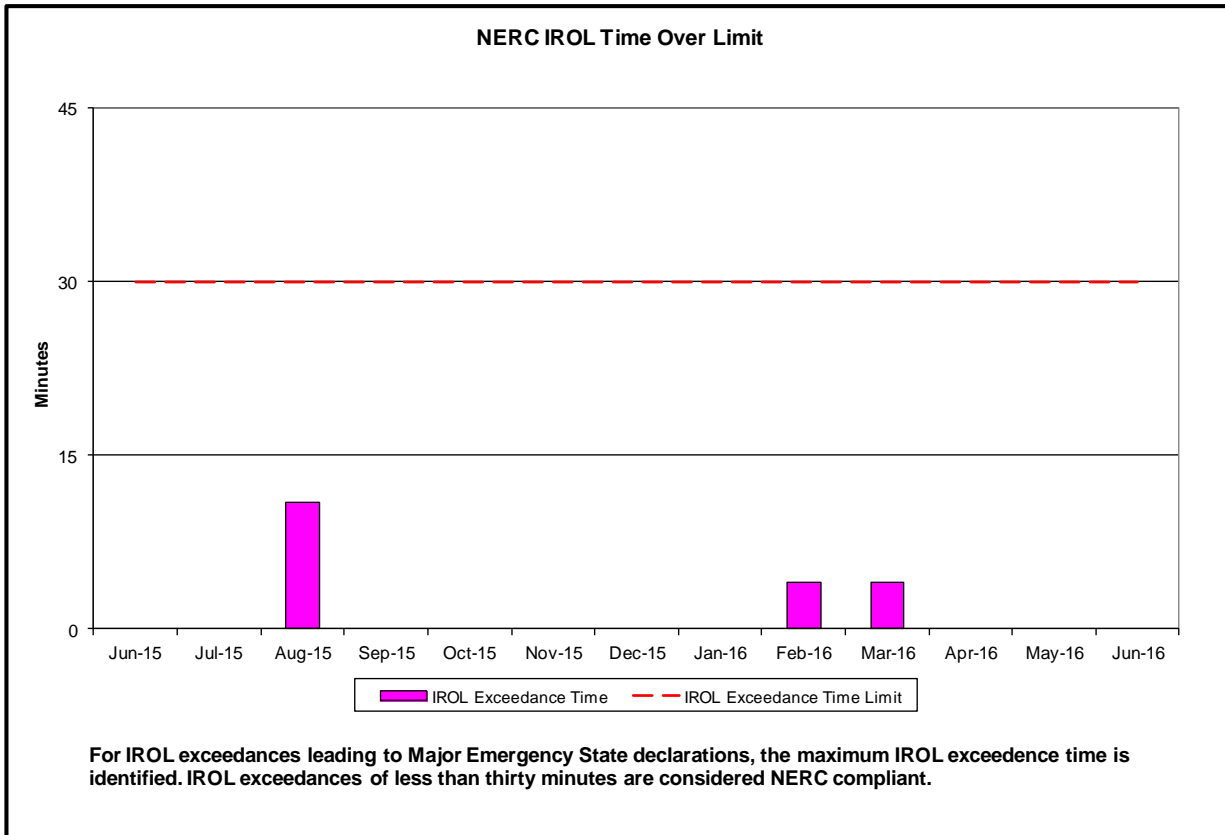
- Statewide uplift cost monthly average was (\$0.01)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and the price delta.

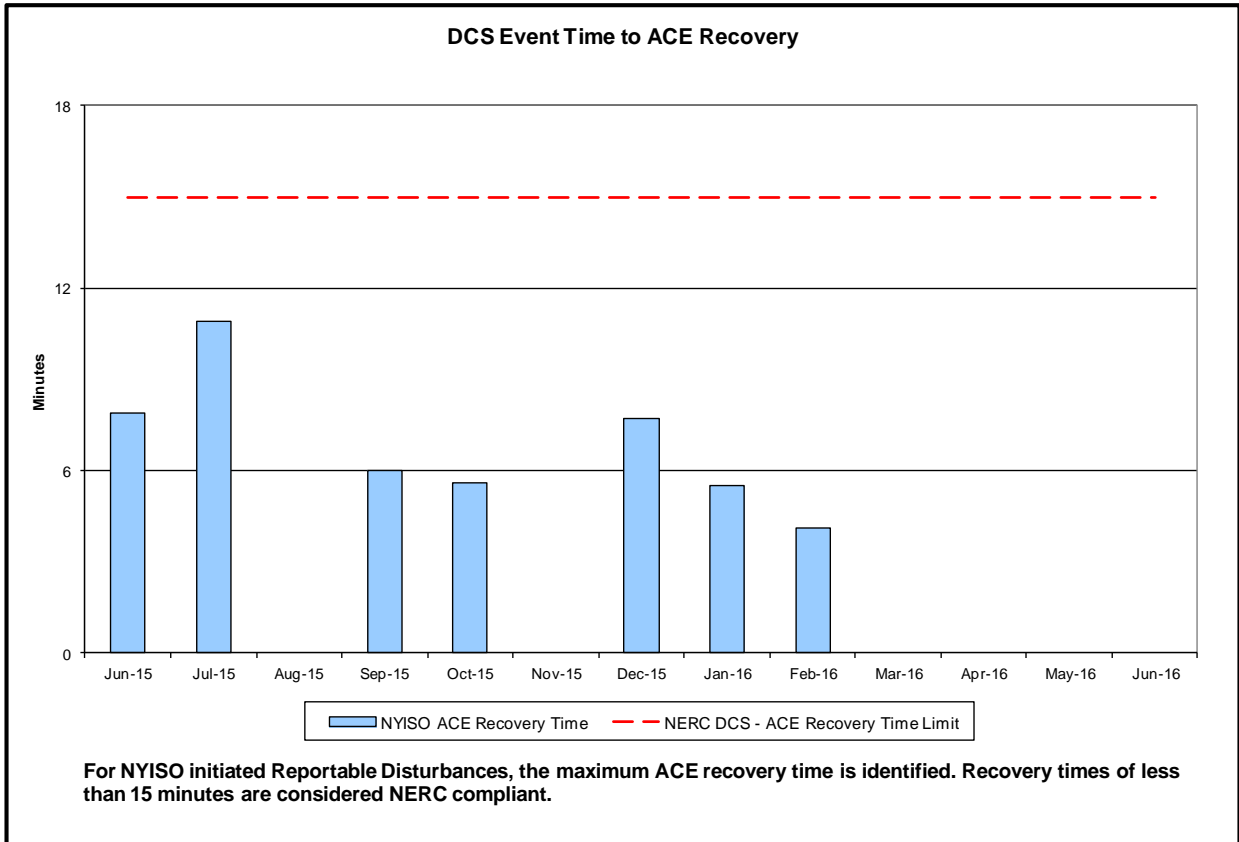
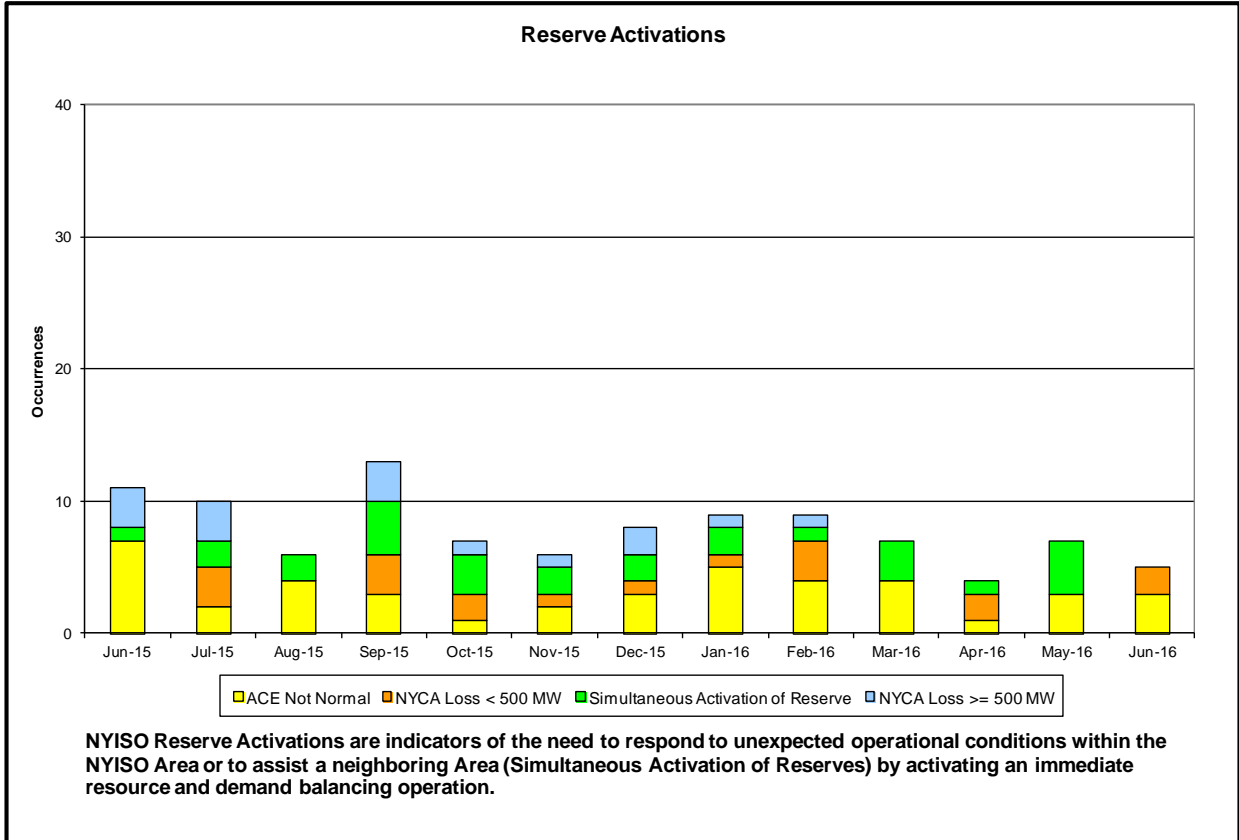
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
July 2016 Spot Price	\$4.27	\$9.25	\$12.22	\$4.37
June 2016 Spot Price	\$4.89	\$9.28	\$12.29	\$4.89
Delta	(\$0.62)	(\$0.03)	(\$0.07)	(\$0.52)

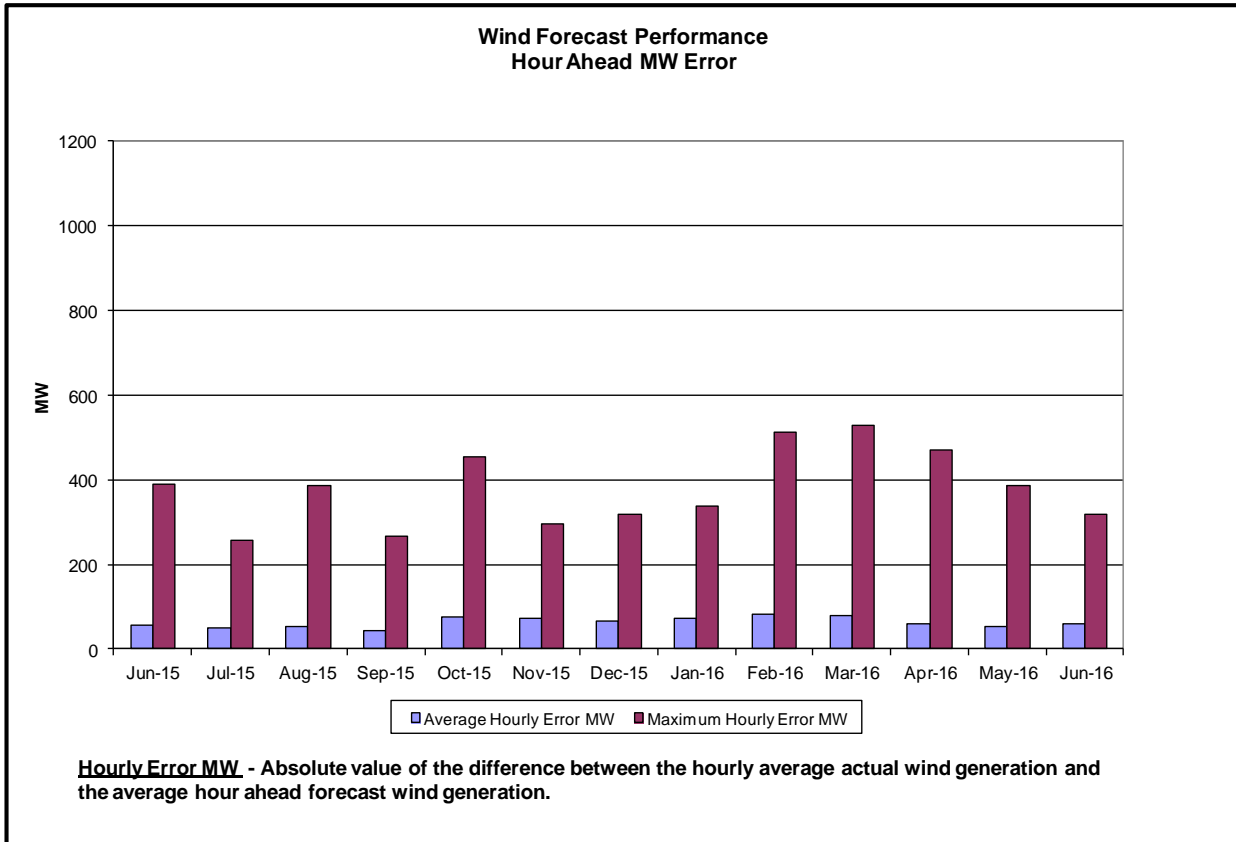
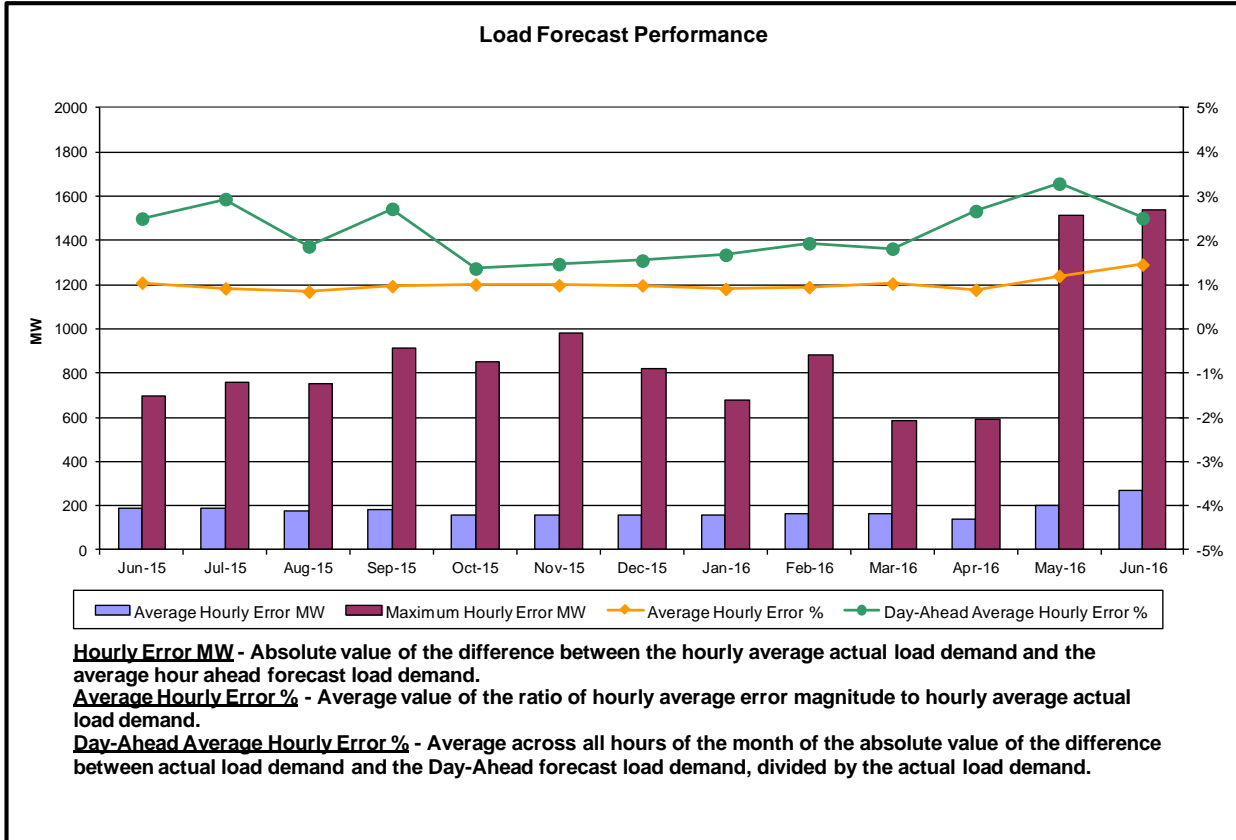
- NYCA - Price decreased by \$0.62 due to less Unoffered, less Exports, and an increase in Imports.
- LI - Price decreased by \$0.52 due to less Unoffered Capacity and separation from NYCA price.

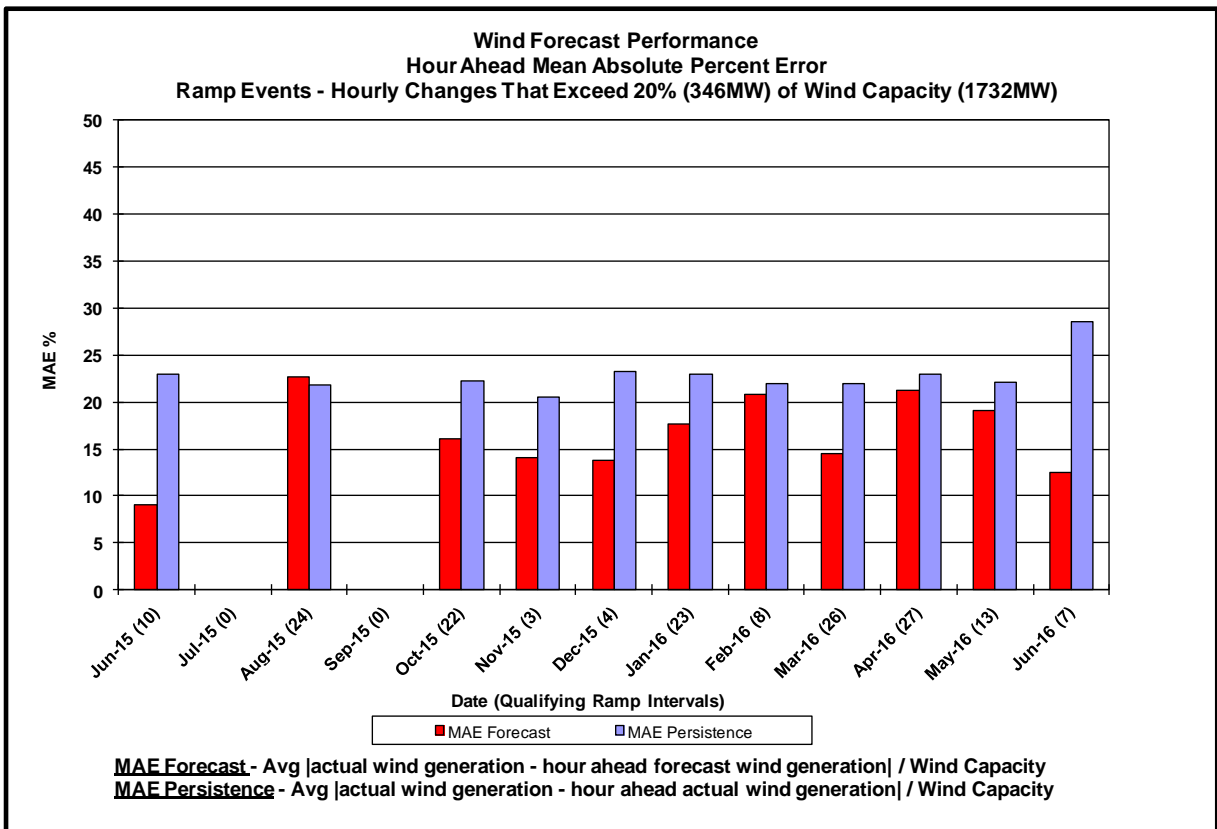
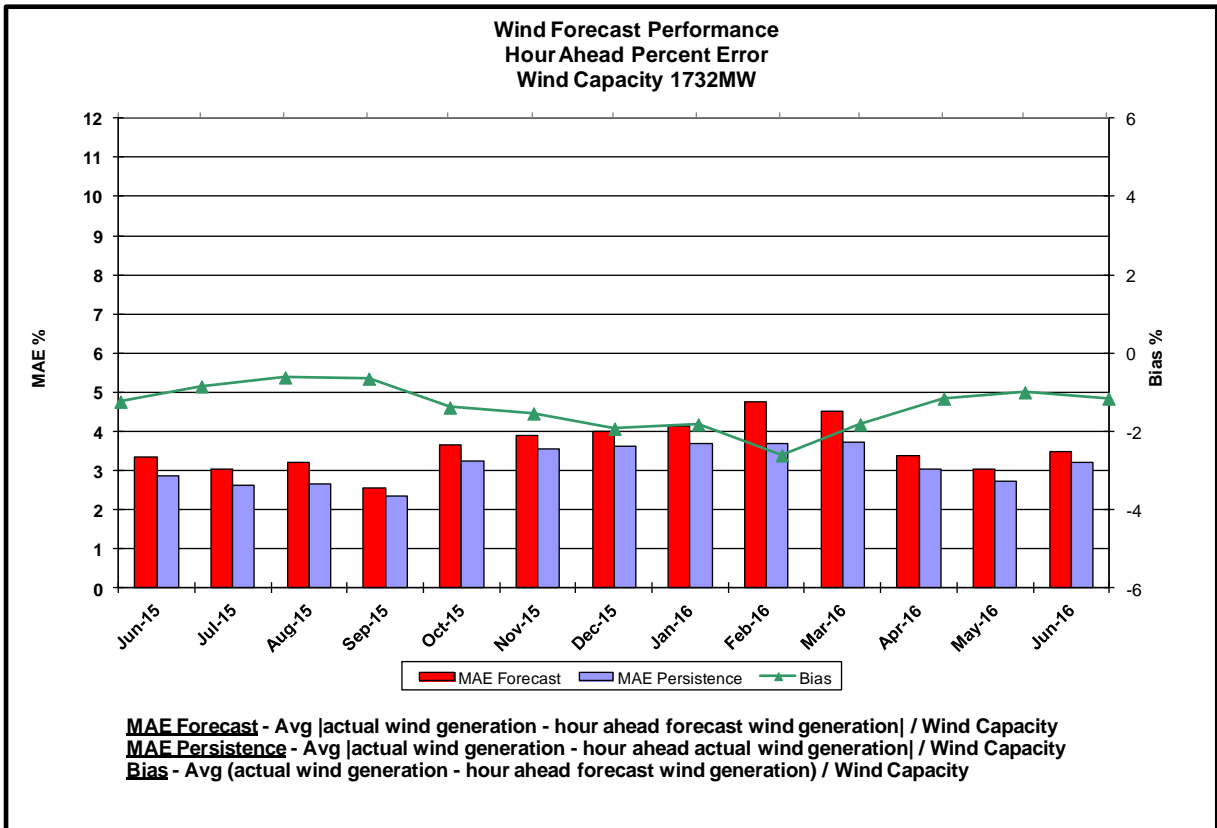
Reliability Performance Metrics

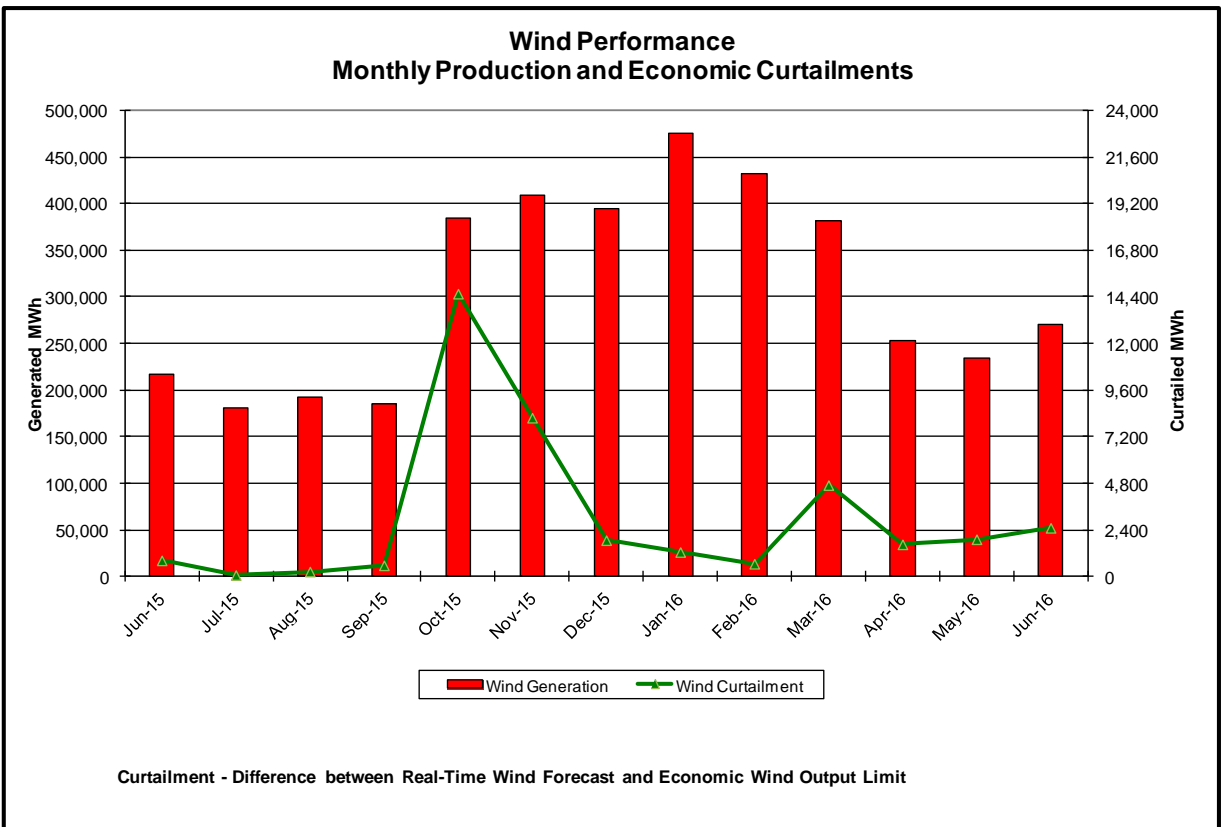
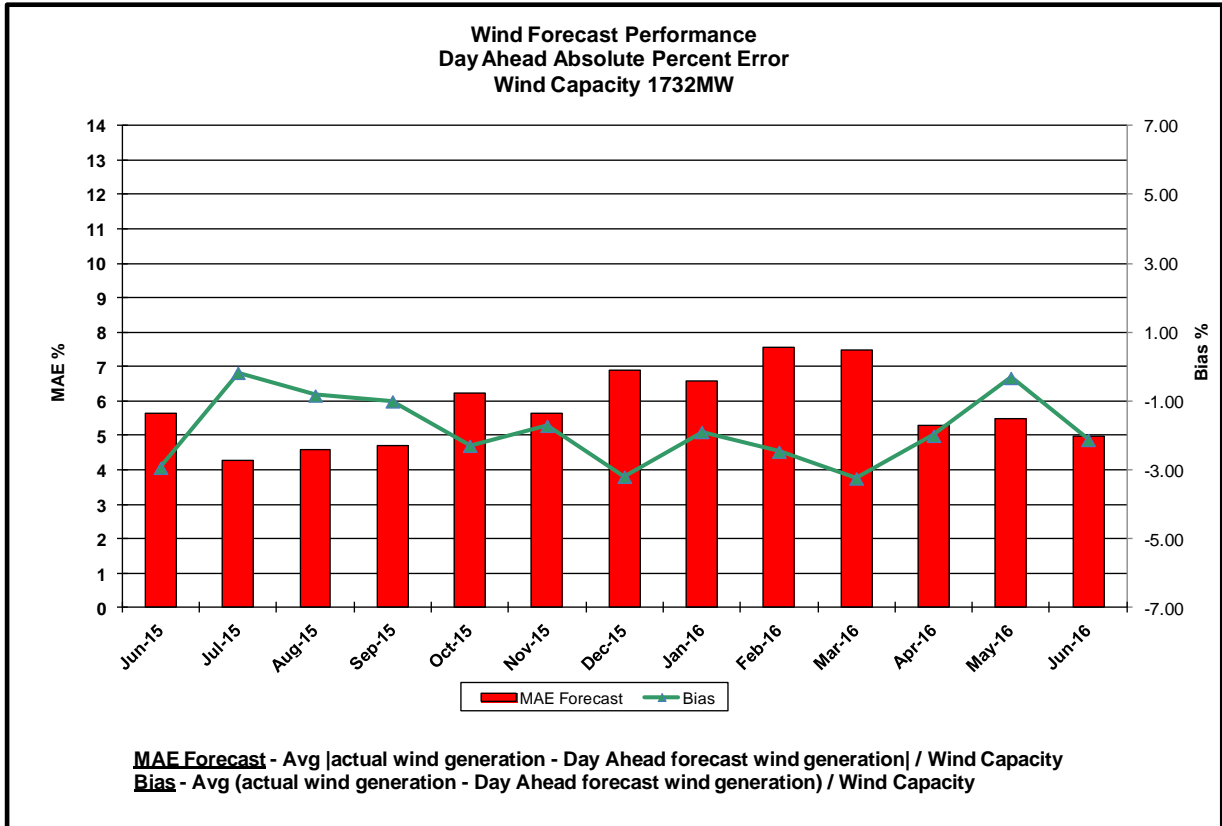


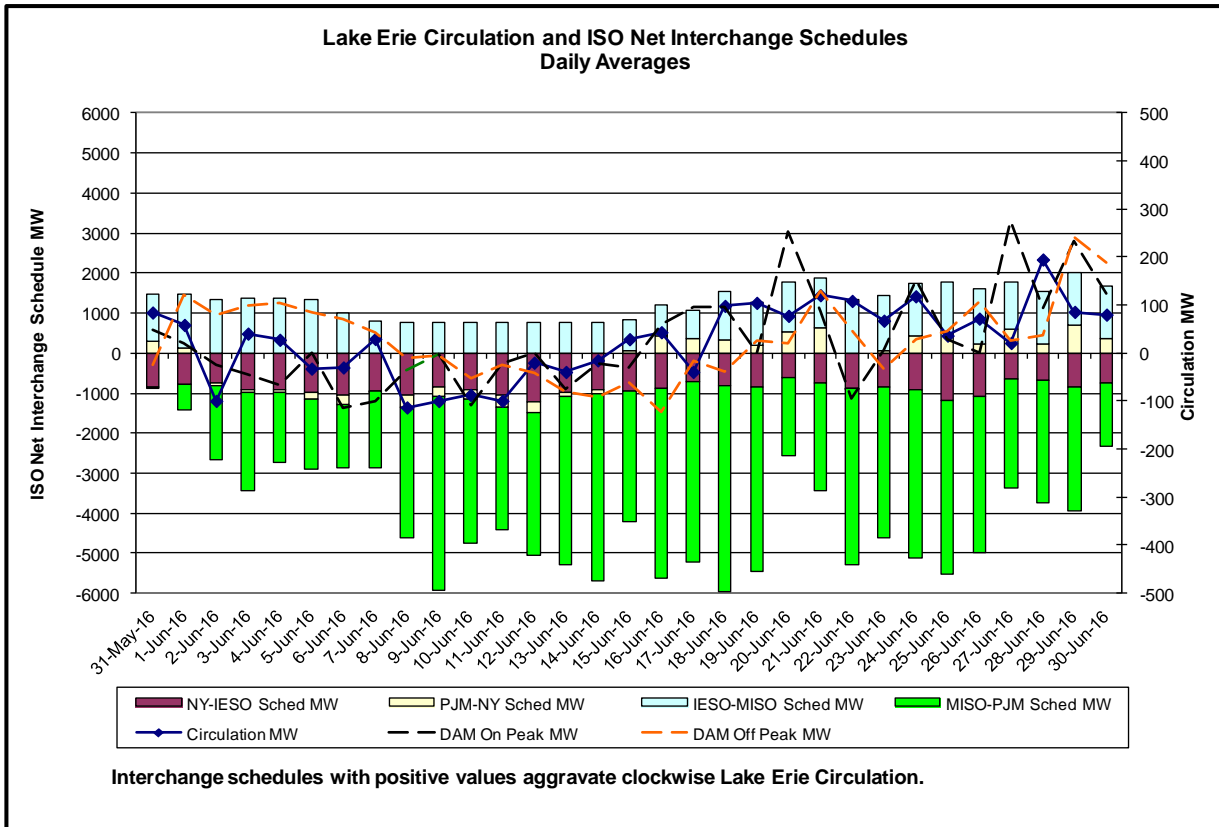
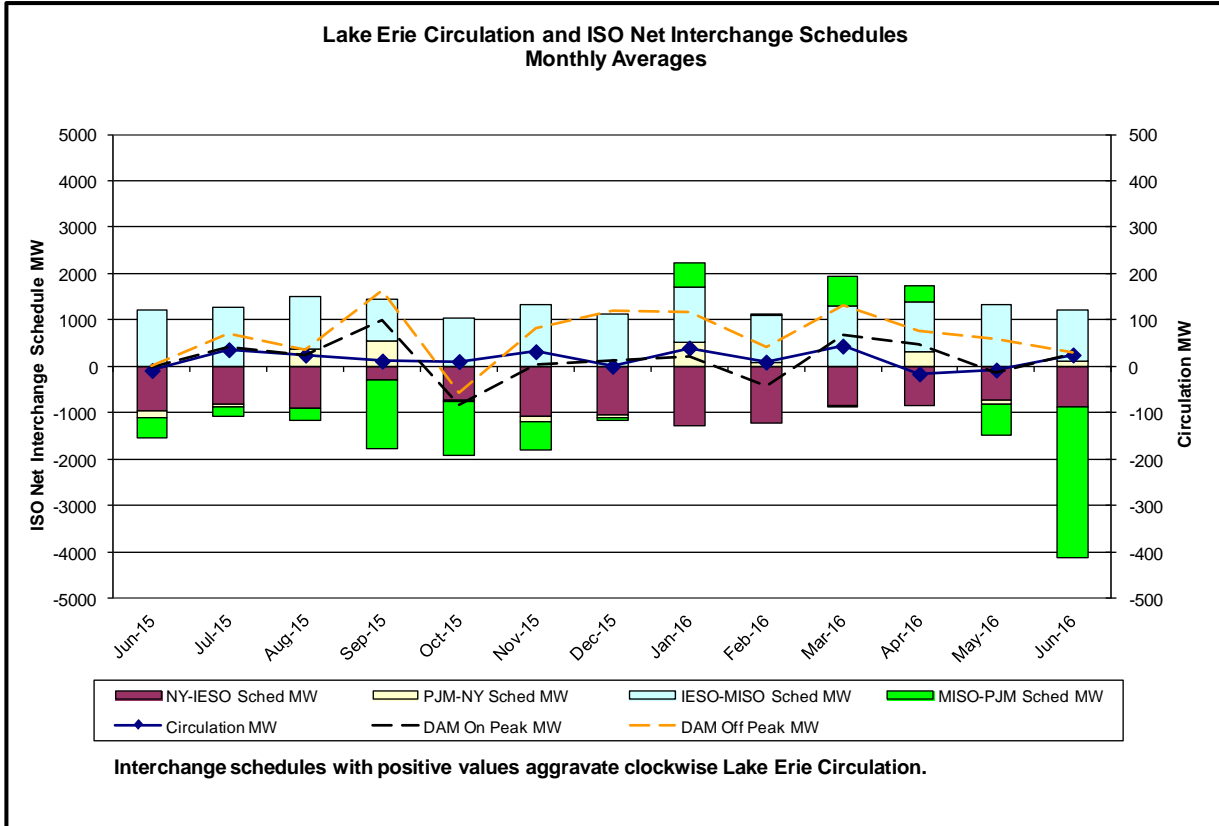




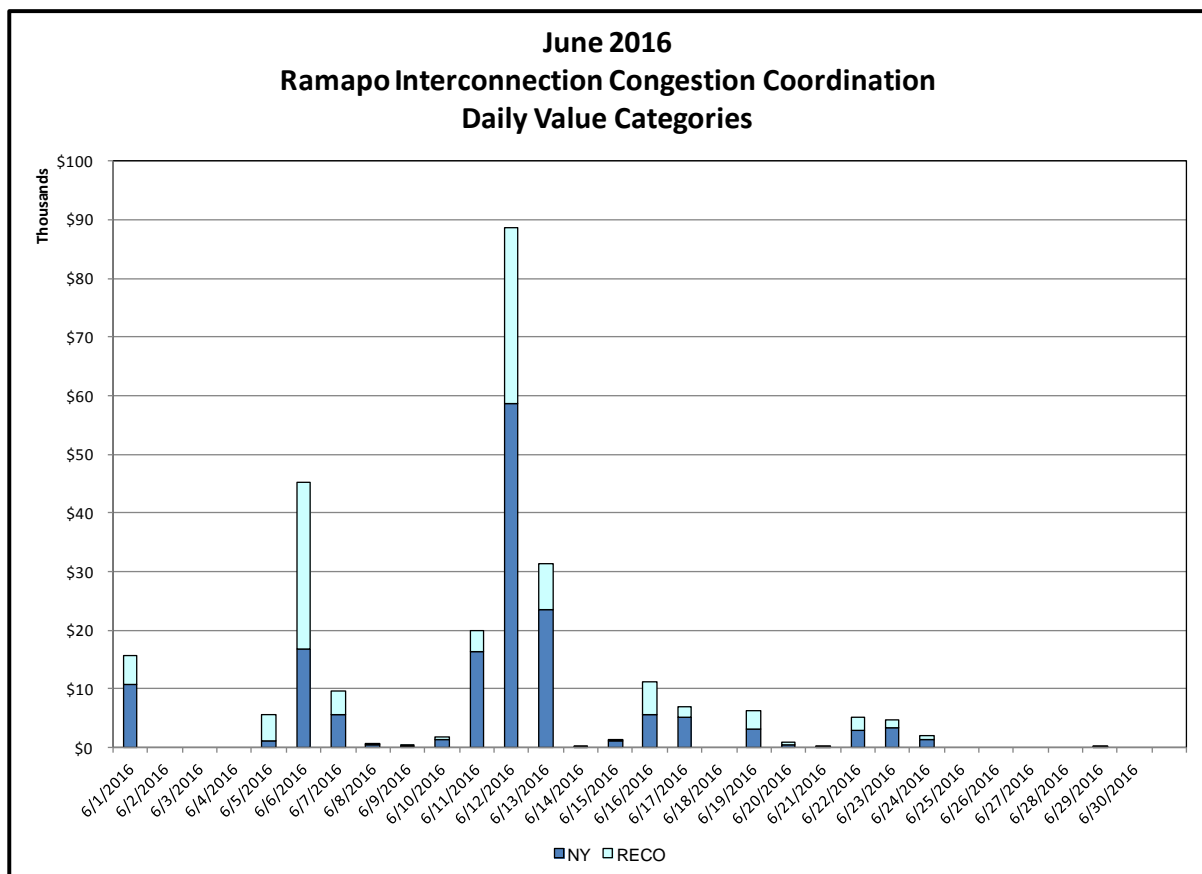
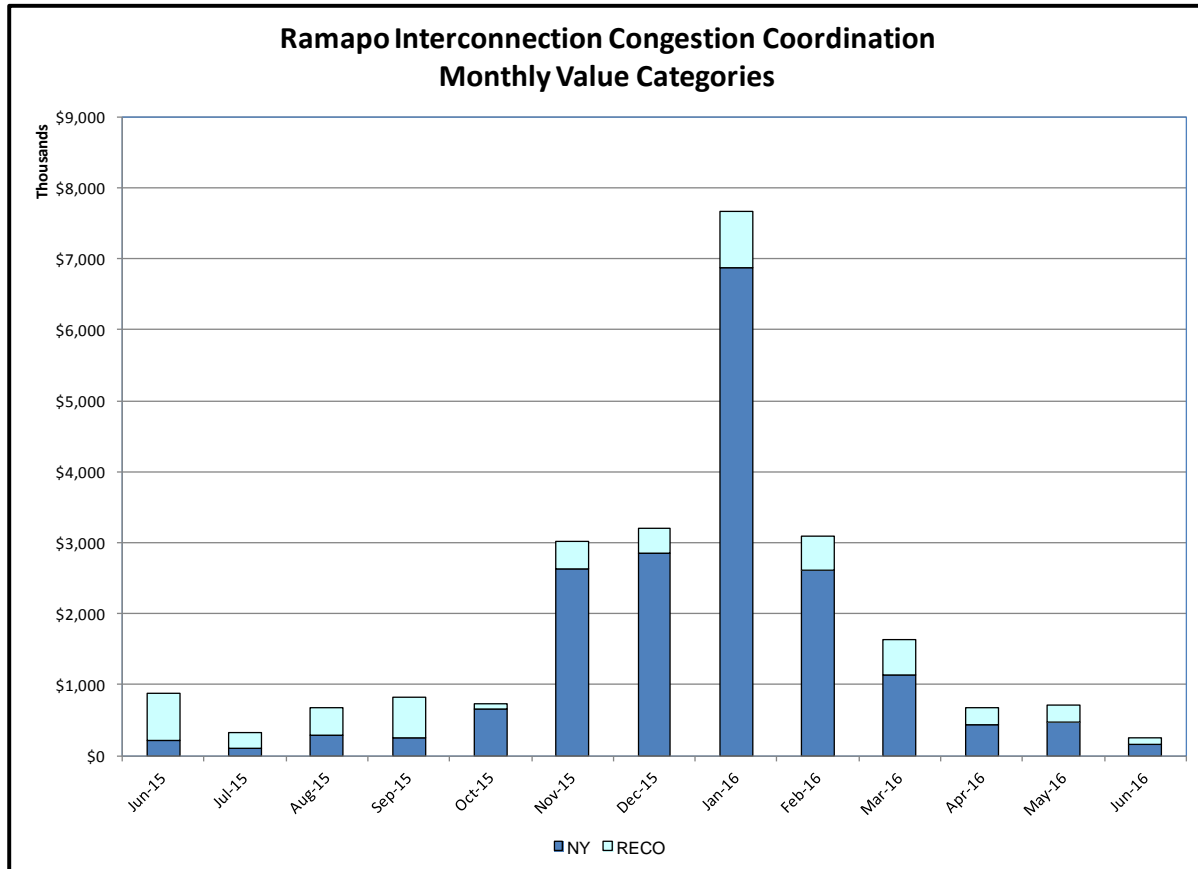






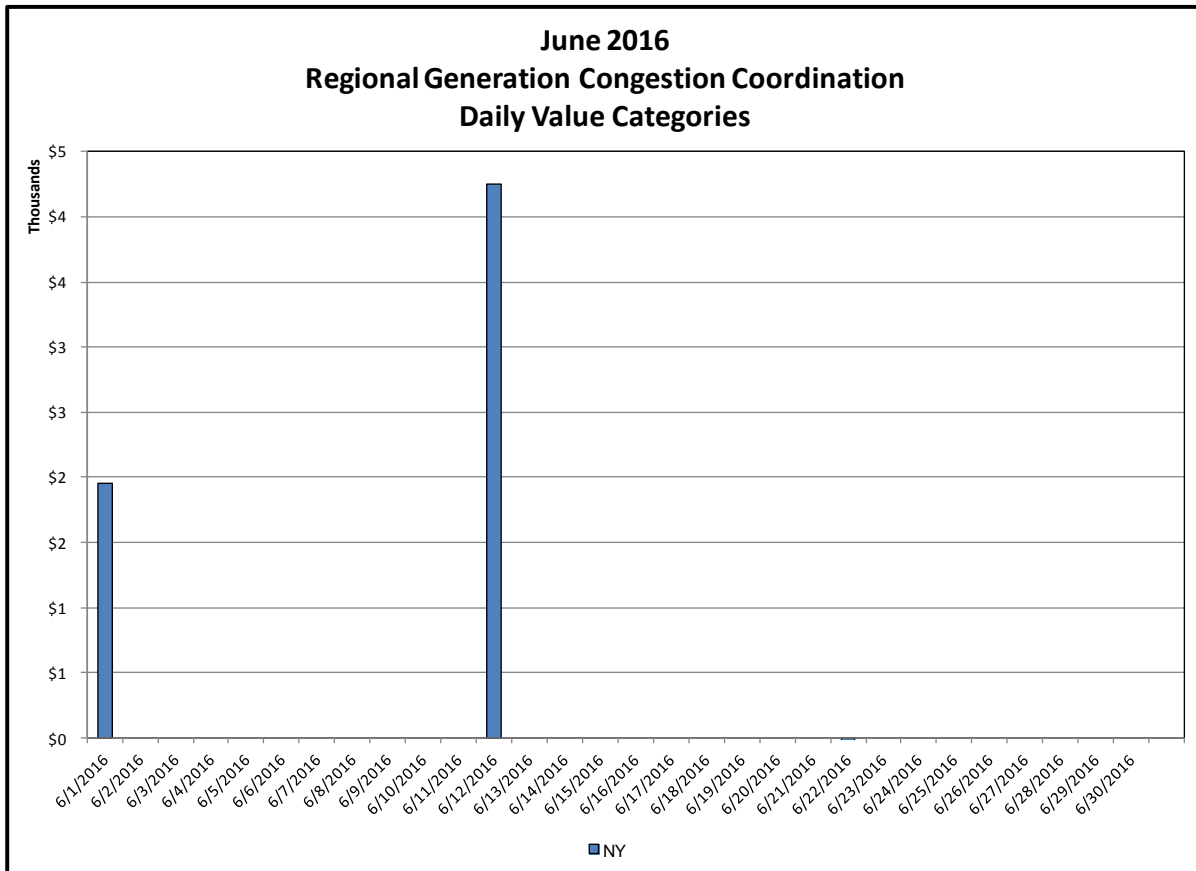
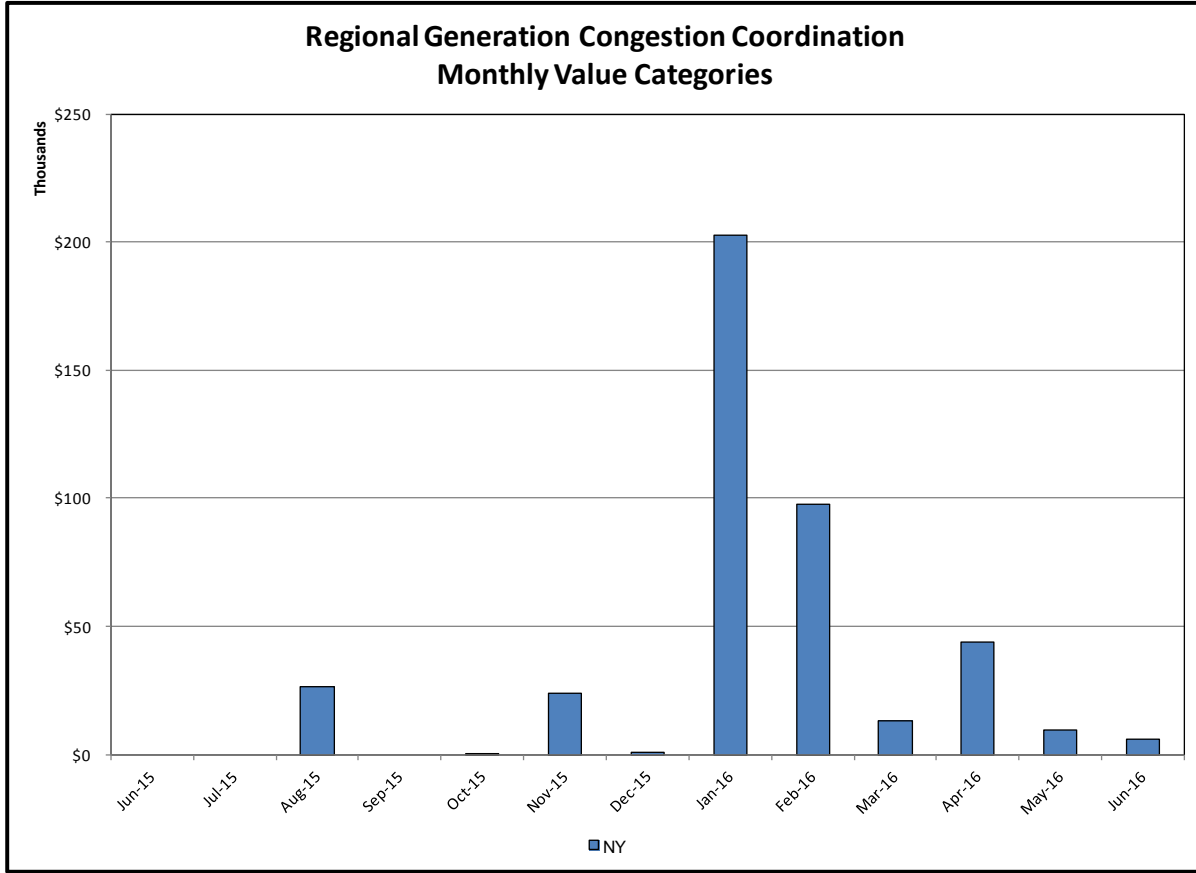


Broader Regional Market Performance Metrics



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.



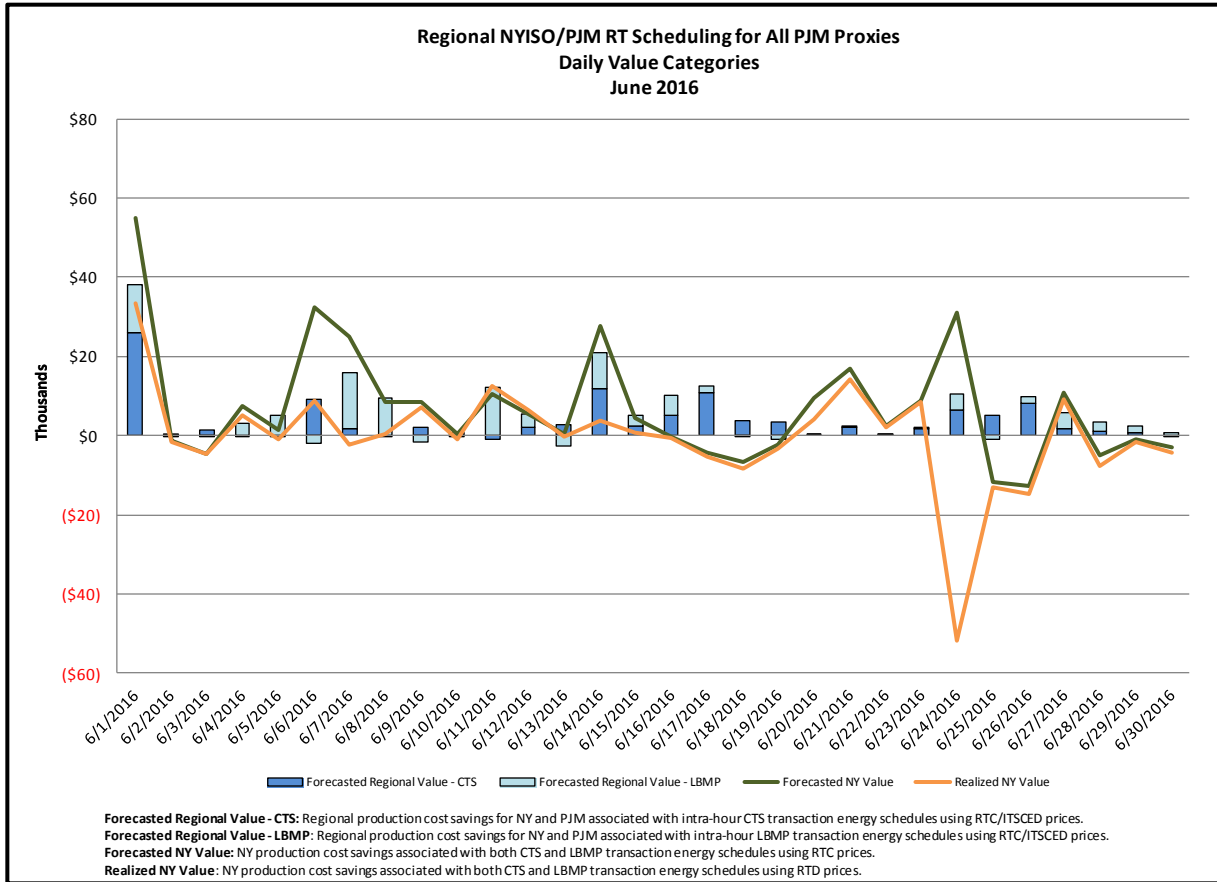
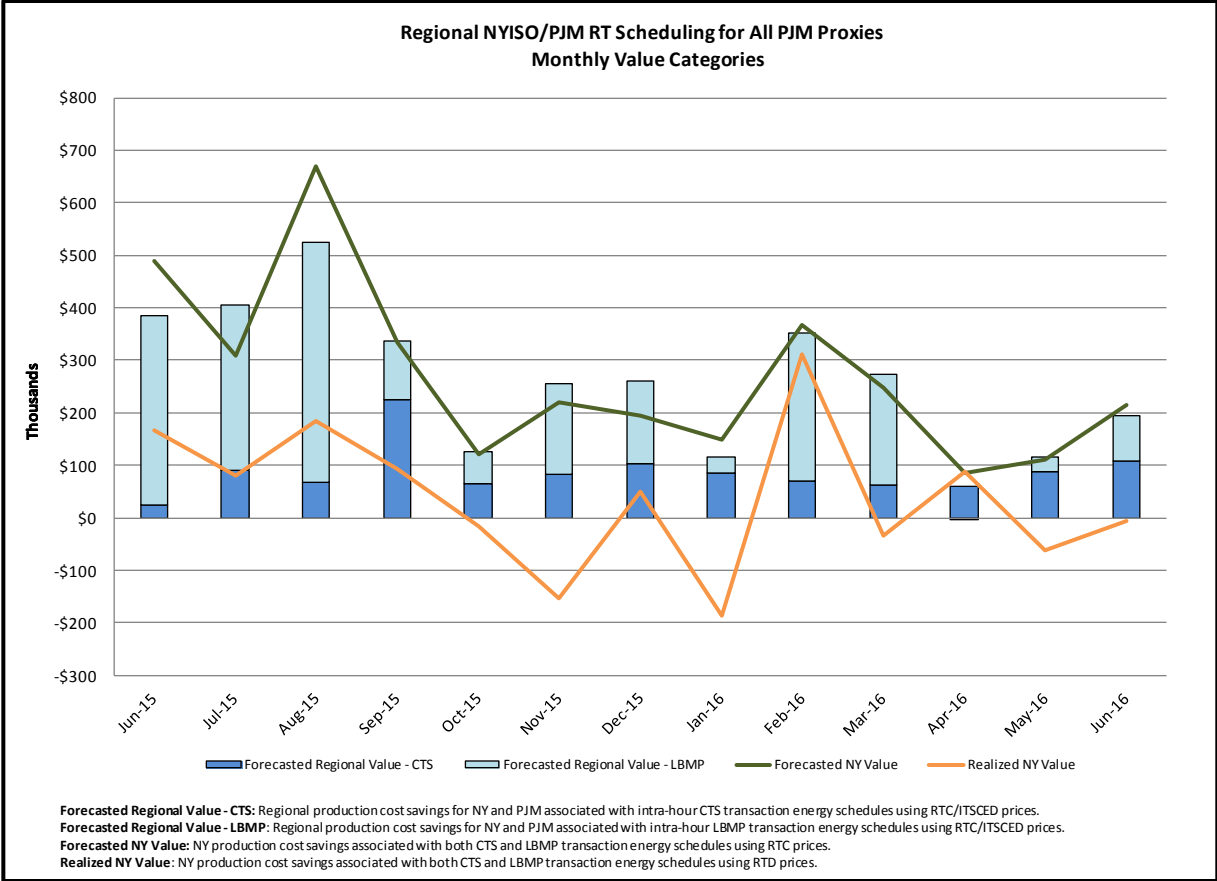
Regional Generation Congestion Coordination

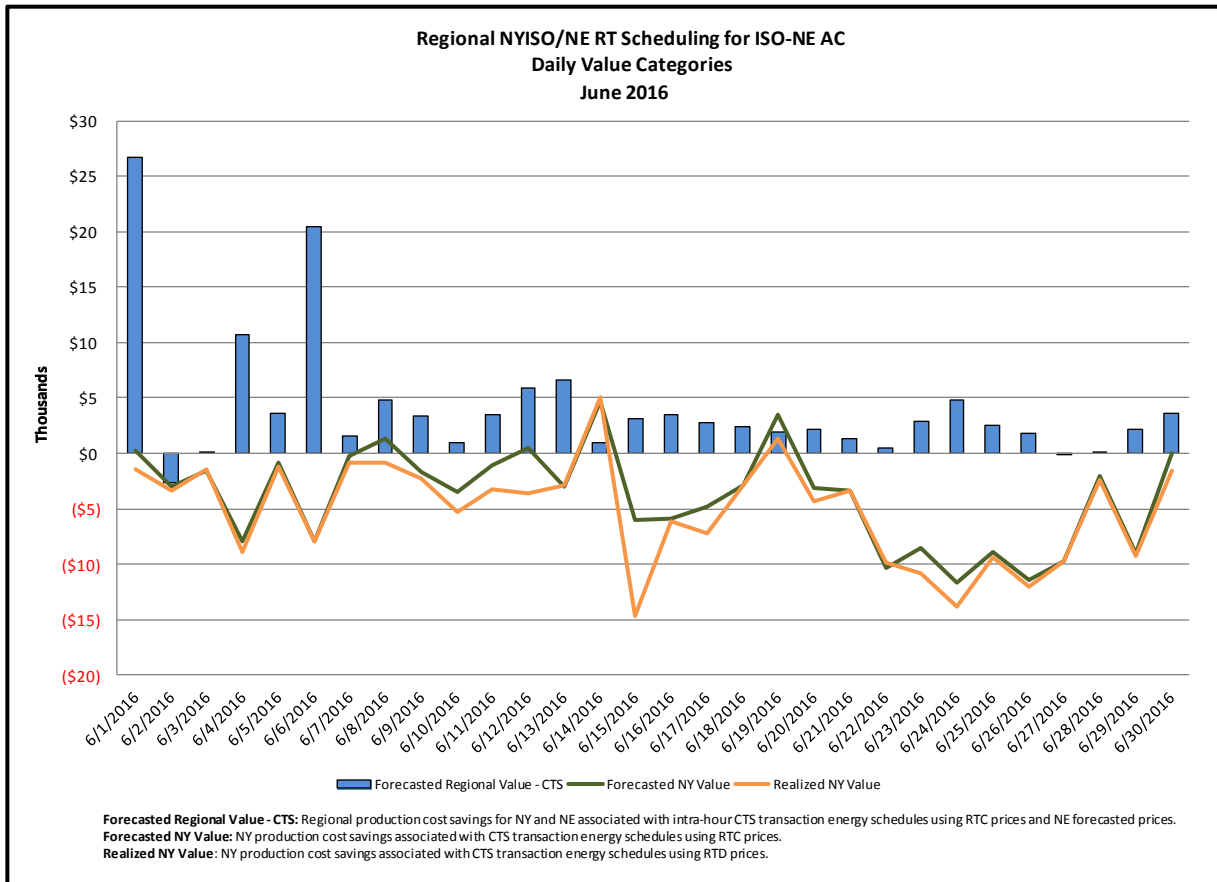
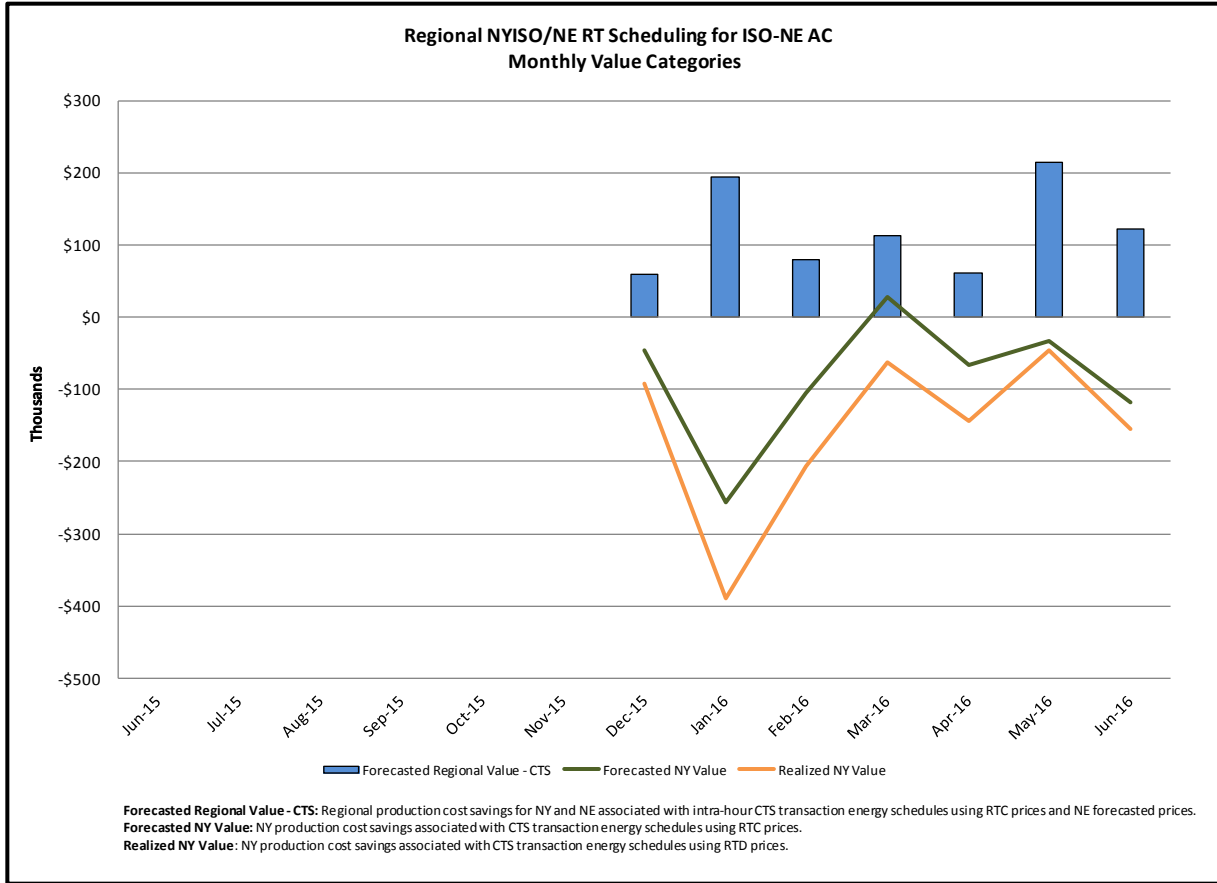
Category

NY

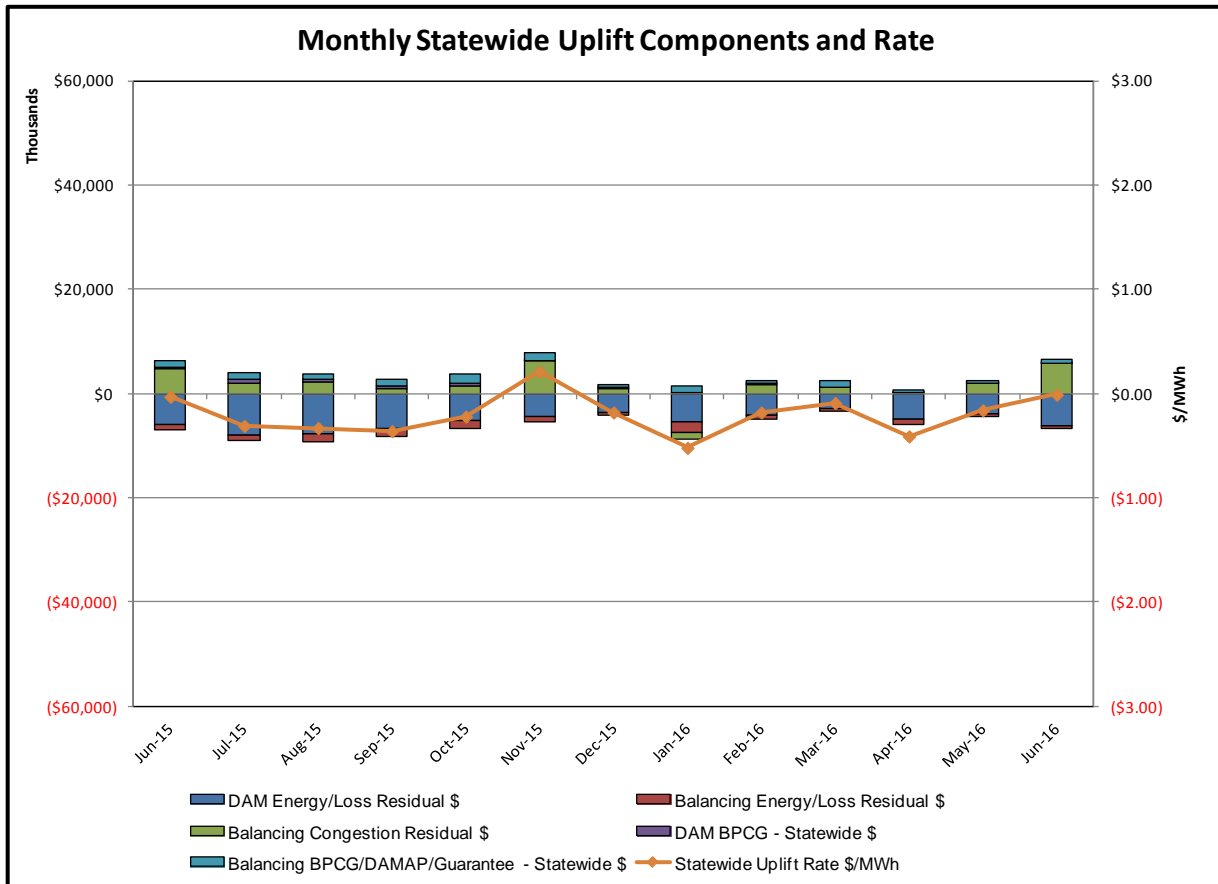
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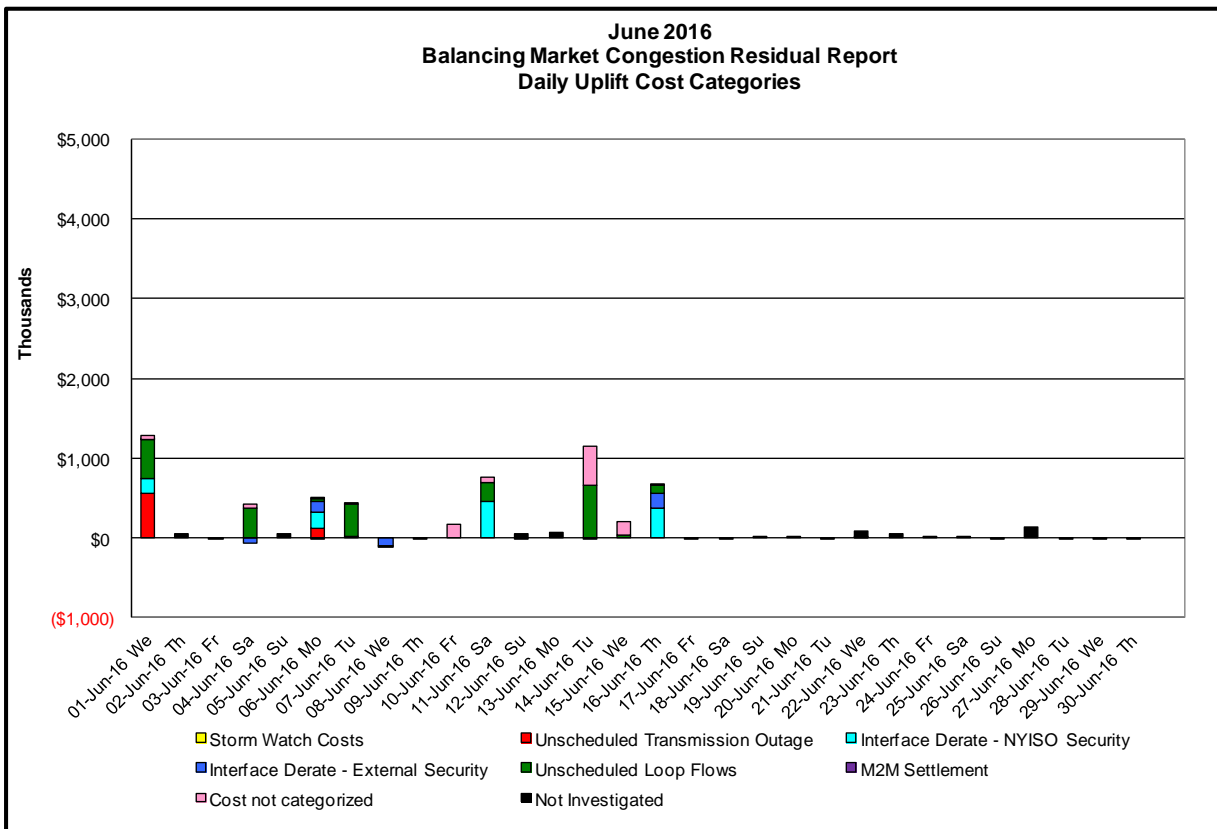
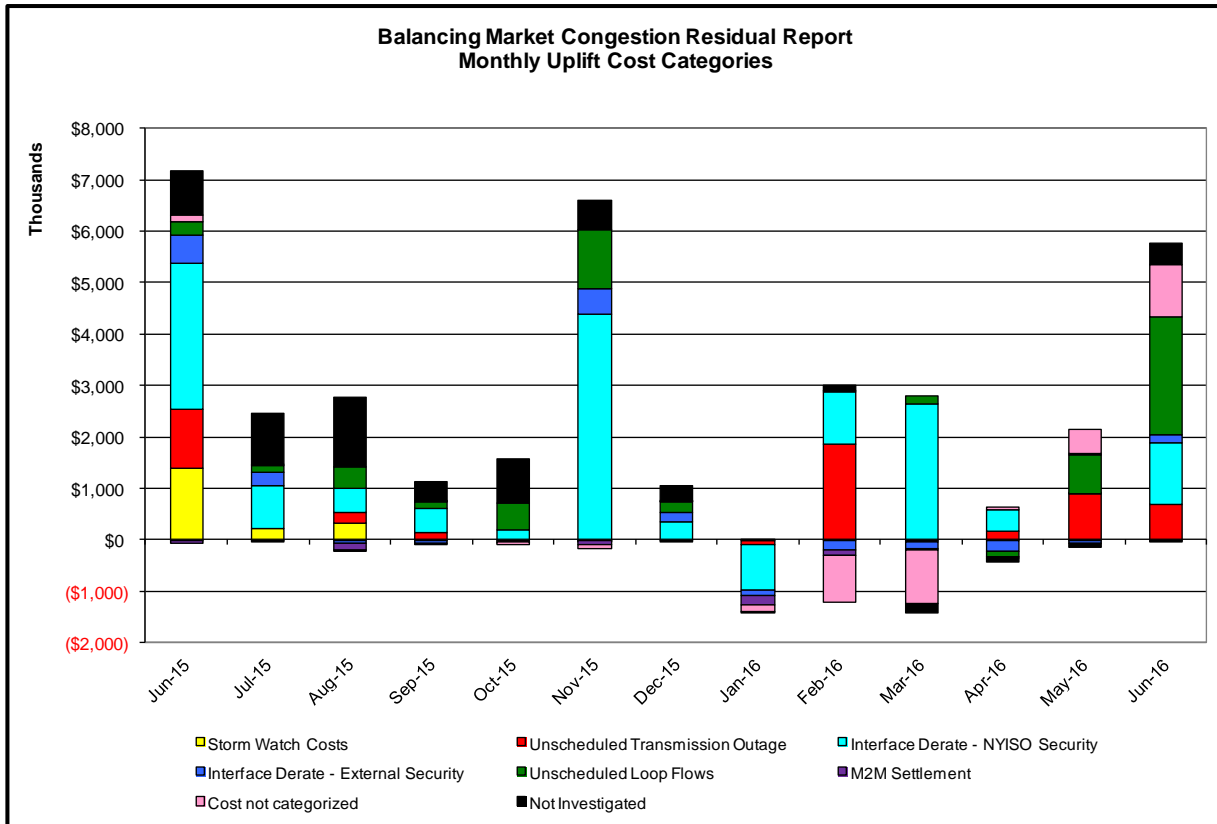
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization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





Market Performance Metrics





Day's investigated in June: 1,4,6,7,10,11,14,15,16

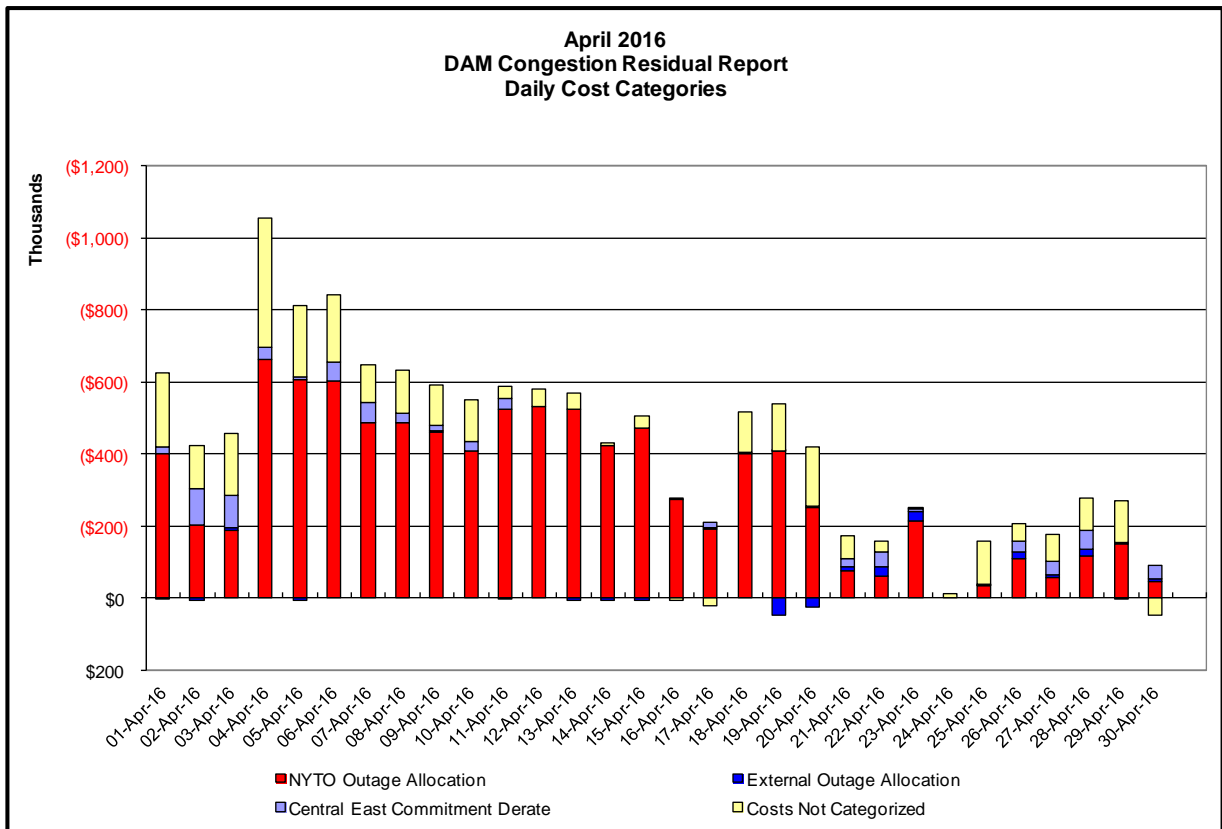
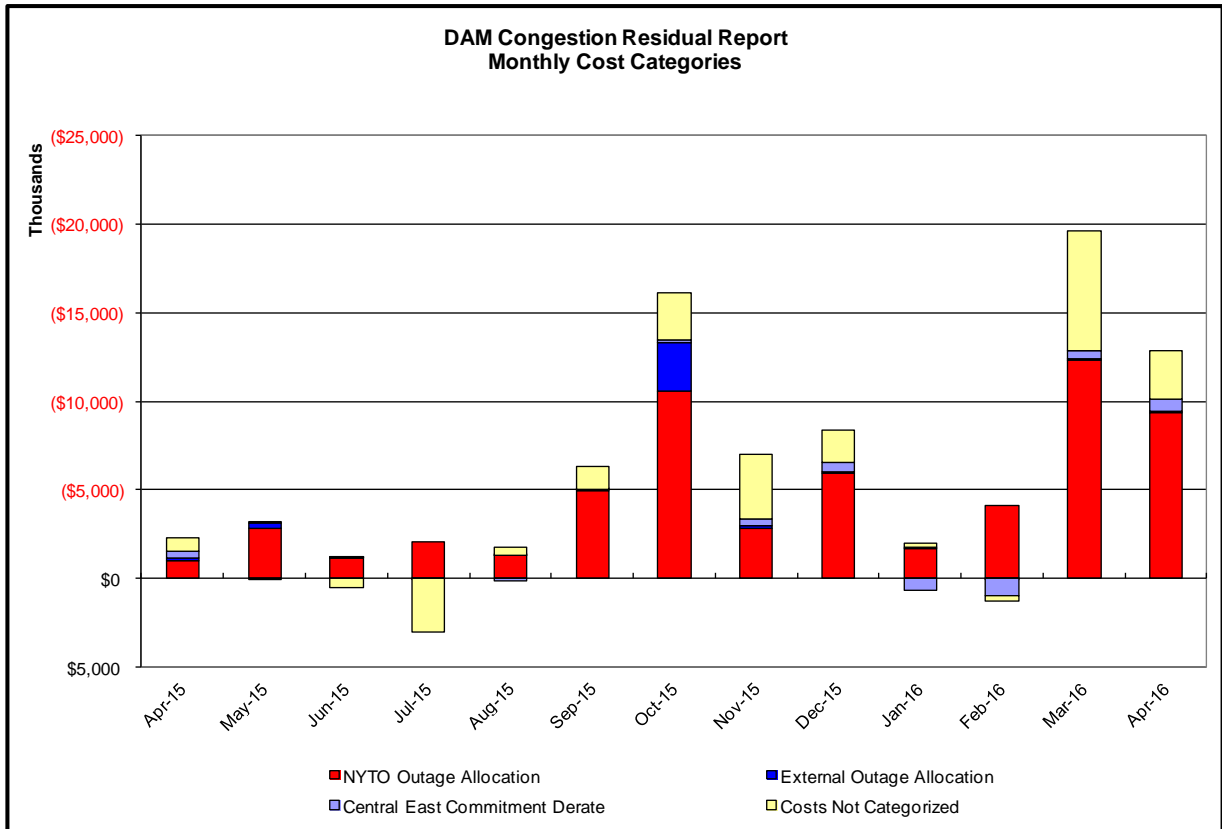
Event	Date (yyyymmdd)	Hours	Description
	6/1/2016	11,12	Forced outage Nine Mile-Clay 345kV (#8)
	6/1/2016	15	NYCA DNI Ramp Limit
	6/1/2016	15	Derate Dunwoodie-Shore 345kV (#Y50)
	6/1/2016	8,16	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Gardenville-Stolle Road 230kV (#66)
	6/1/2016	7,8,15-17	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61), Packard-Sawyer 230kV (#77)
	6/4/2016	6	NE_AC ACTIVE DNI Limit
	6/4/2016	12-14	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61)
	6/6/2016	17-22	Forced outage Roseton-Hurley Avenue 345kV (#303), Roseton-East Fishkill 345kV (#305)
	6/6/2016	16,17,21,22	NYCA DNI Ramp Limit
	6/6/2016	15-17	Derate Coopers-Middletown Tap 345kV (#34)
	6/6/2016	8,10,11,14-17	Derate Moses South
	6/6/2016	19-22	HQ_CHAT-NY Scheduling Limit
	6/6/2016	21	IESO_AC DNI Ramp Limit
	6/6/2016	5,15,17-21	NE_AC ACTIVE DNI Limit
	6/6/2016	11	NE_NNC1385-NY Scheduling Limit
	6/6/2016	17	PJM_AC DNI Ramp Limit
	6/6/2016	17	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61), Gardenville-Stolle Road 230kV (#66)
	6/7/2016	13	Forced outage Roseton-Hurley Avenue 345kV (#303), Roseton-East Fishkill 345kV (#305)
	6/7/2016	12	PJM_AC DNI Ramp Limit
	6/7/2016	8-10,13,17	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61)
	6/7/2016	13	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Gardenville-Stolle Road 230kV (#66)
	6/11/2016	12	Uprate FreshKills-Willow Brook 138kV (#29211)
	6/11/2016	16-22	Derate Leeds-Hurley Avenue 345kV (#301) for I/o \$TWR 30/31 W/PV N BUS AND 398
	6/11/2016	15-19	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Gardenville-Stolle Road 230kV (#66)
	6/11/2016	16	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61)
	6/14/2016	20	IESO_AC DNI Ramp Limit
	6/14/2016	17,18	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61), Packard-Sawyer 230kV (#77)
	6/15/2016	15	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61), Packard-Sawyer 230kV (#77)
	6/16/2016	14-16	Derate Gardenville-Stolle Road 230kV (#66) for I/o TWR:PACKARD 77 & 78
	6/16/2016	15	PJM_AC DNI Ramp Limit
	6/16/2016	16	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61), Gardenville-Stolle Road 230kV (#66)

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	

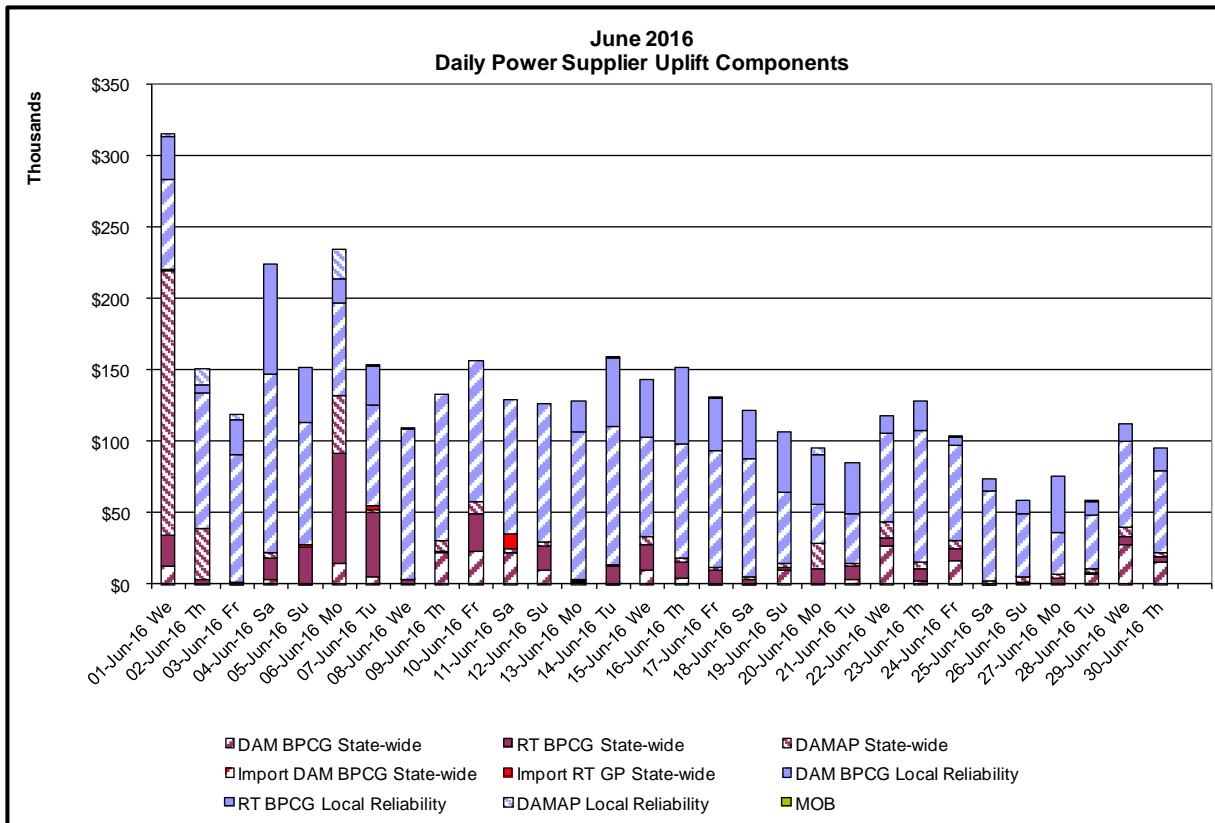
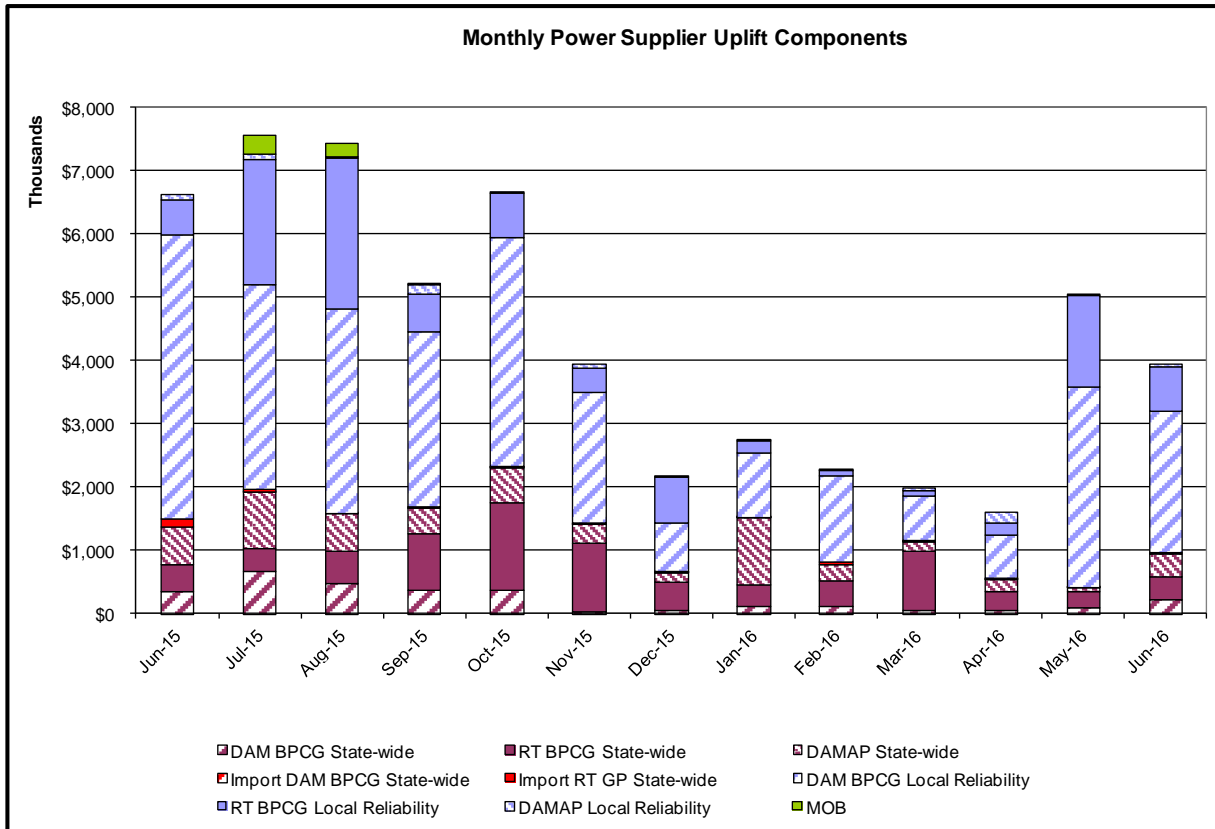
Monthly Balancing Market Congestion Report Assumptions/Notes

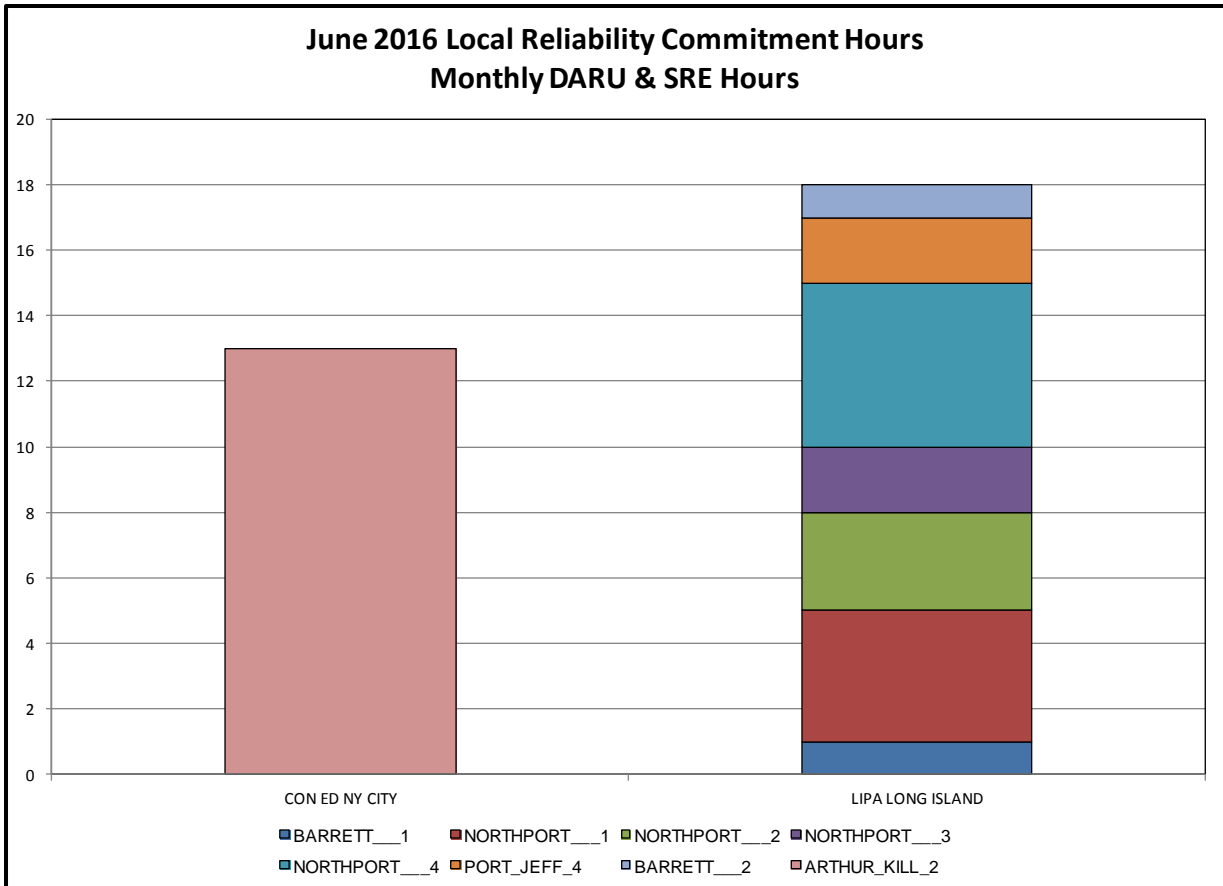
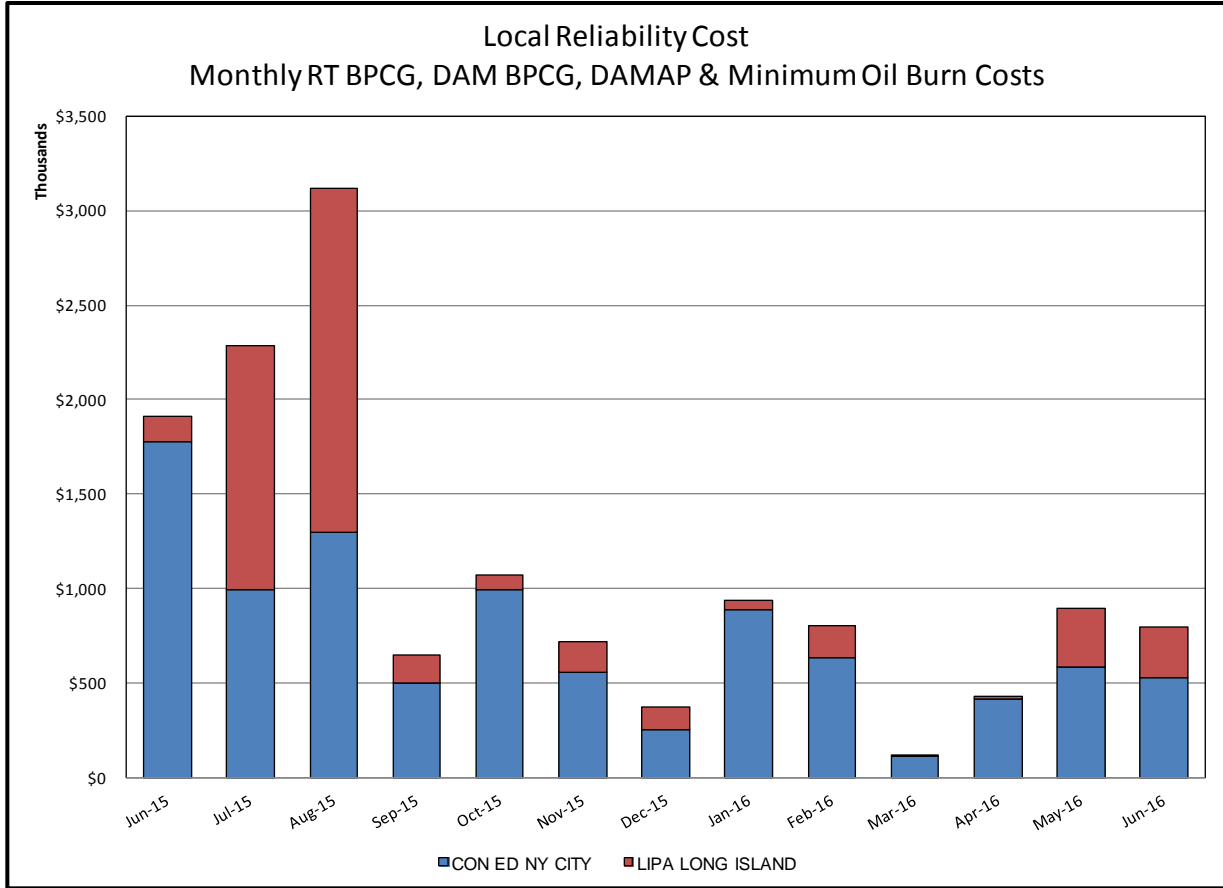
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

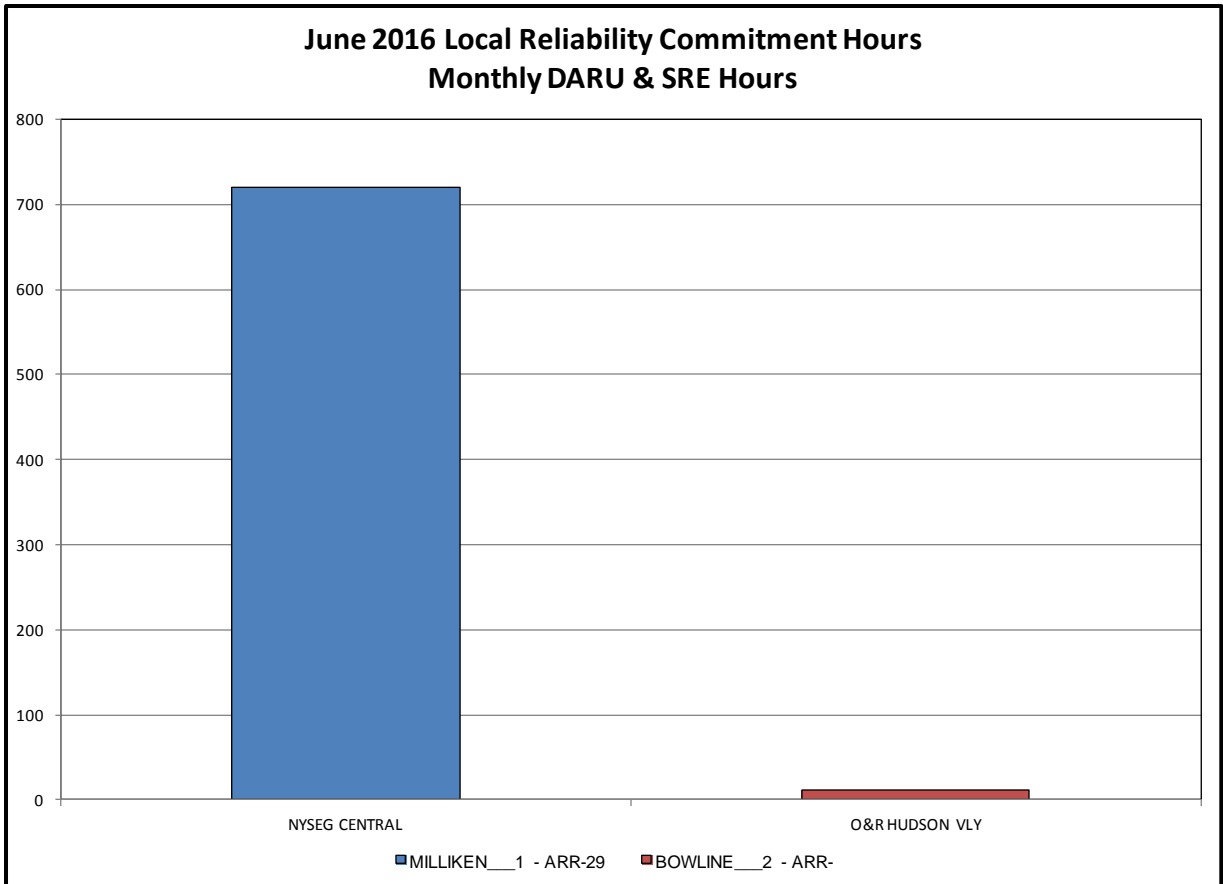
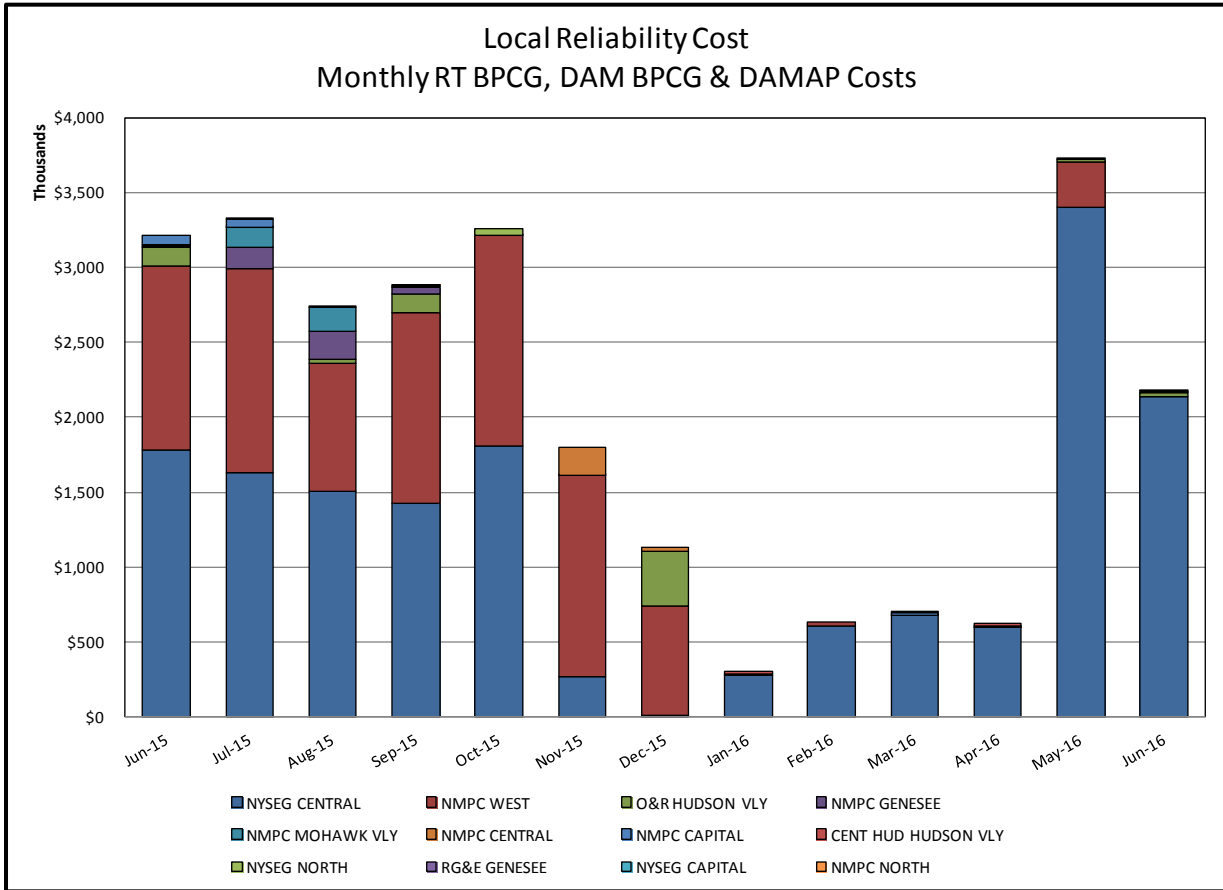


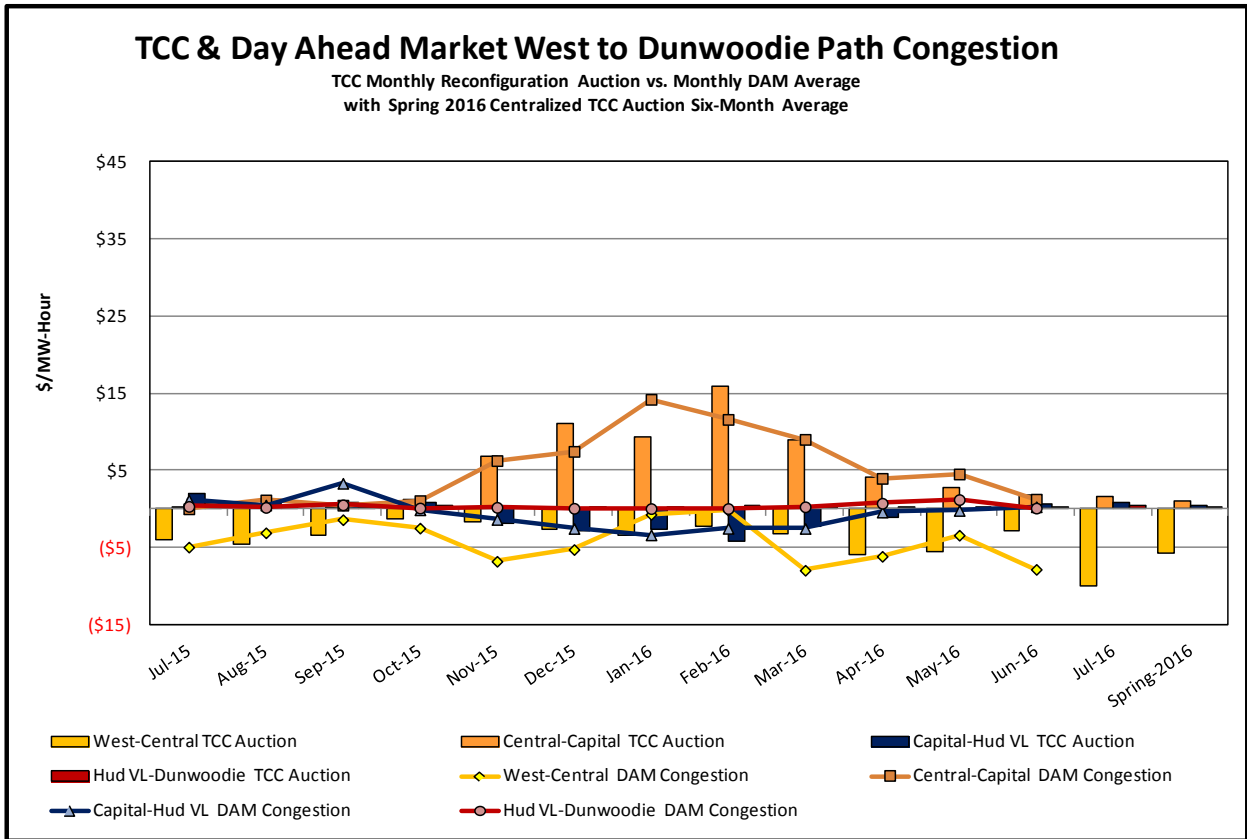
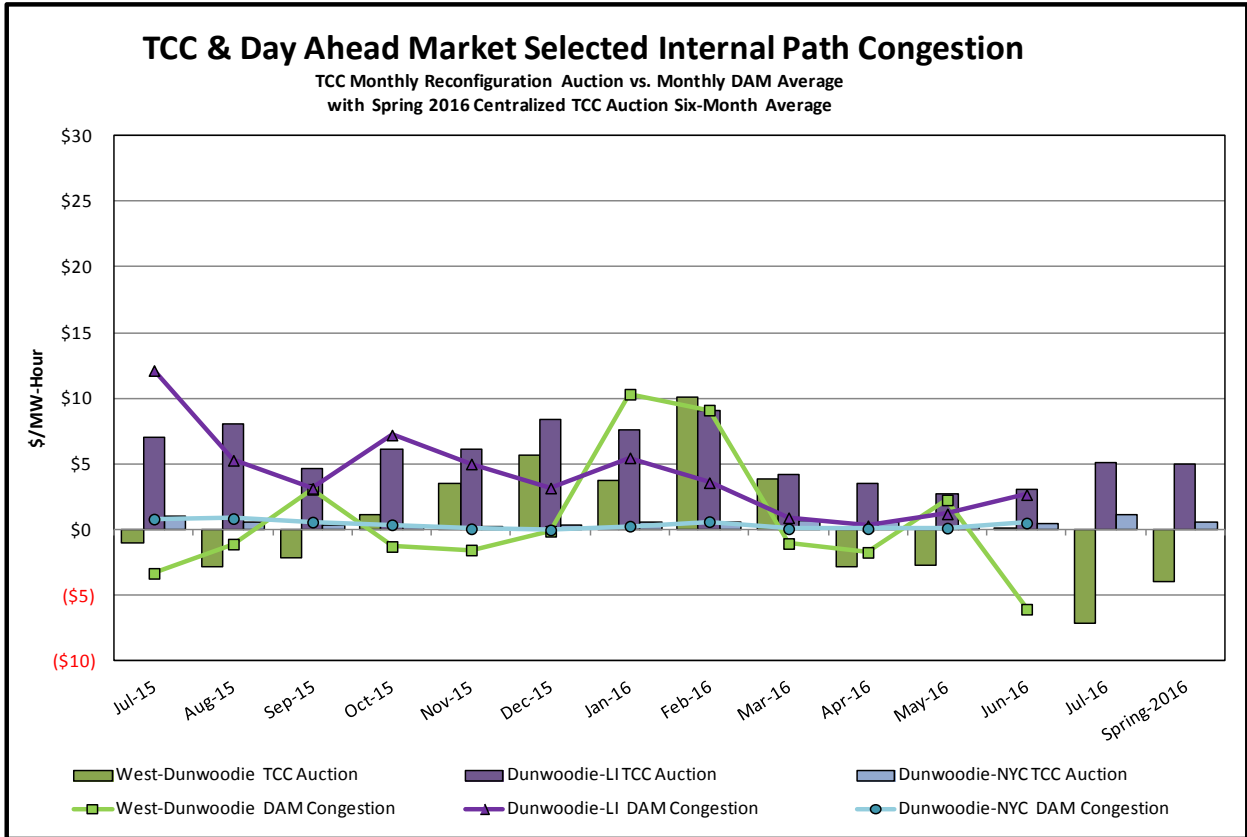
Day-Ahead Market Congestion Residual Categories

<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.	



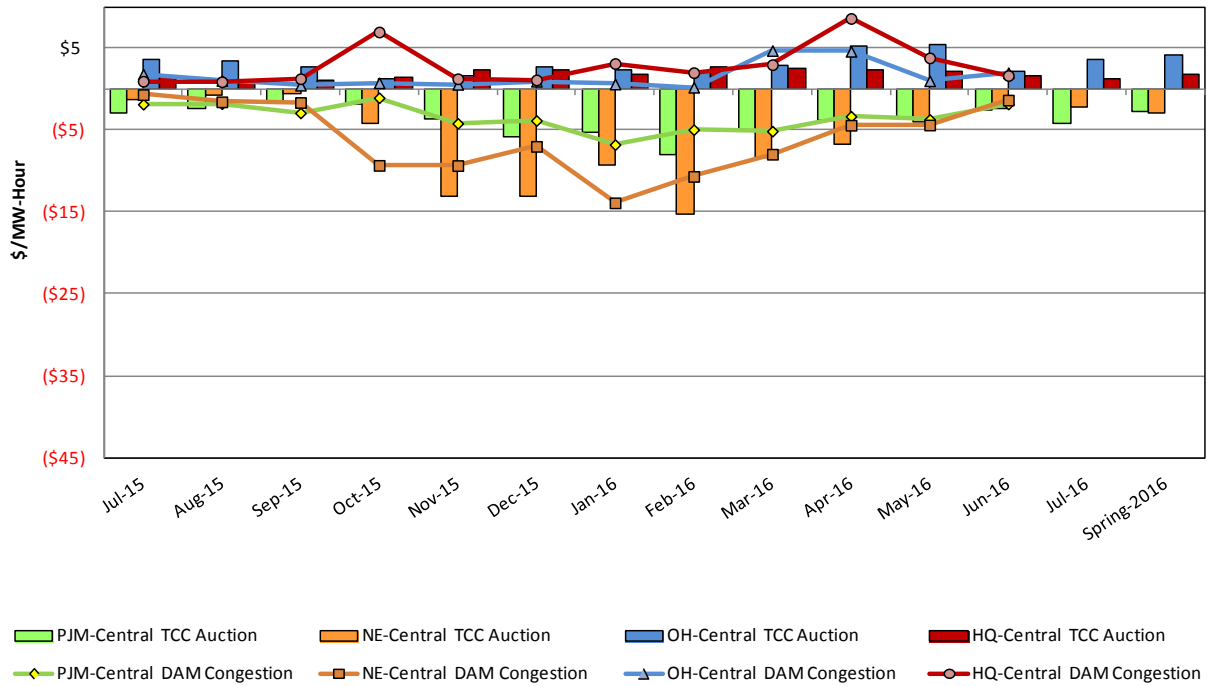


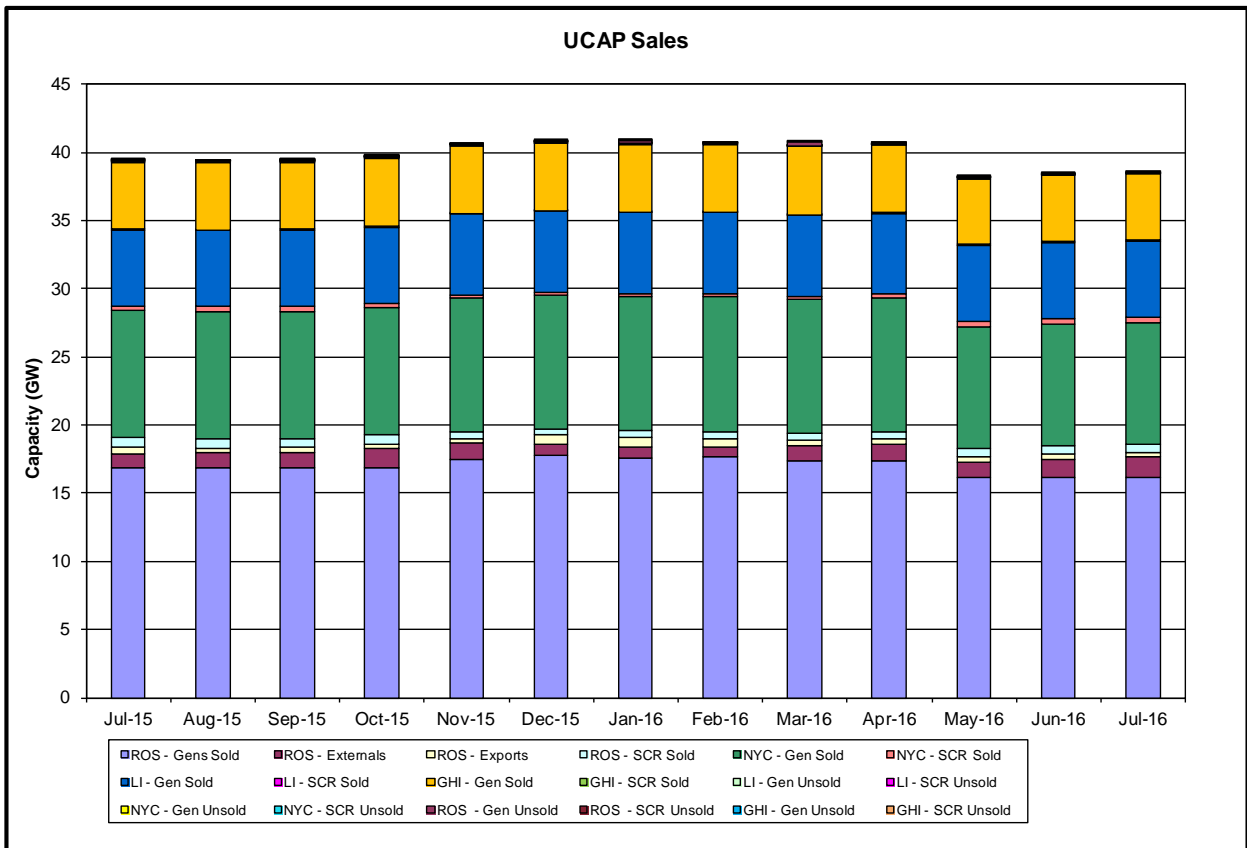
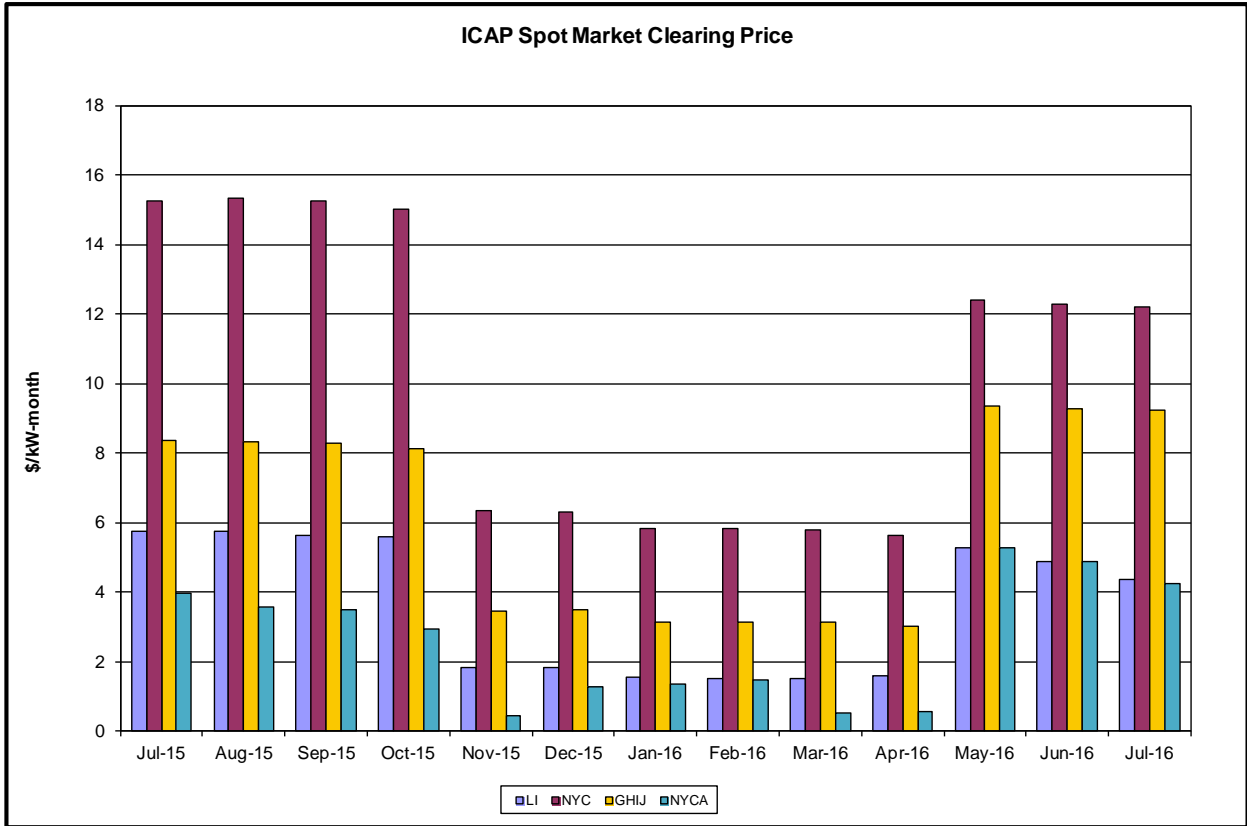




TCC & Day Ahead Market Selected External Path Congestion

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

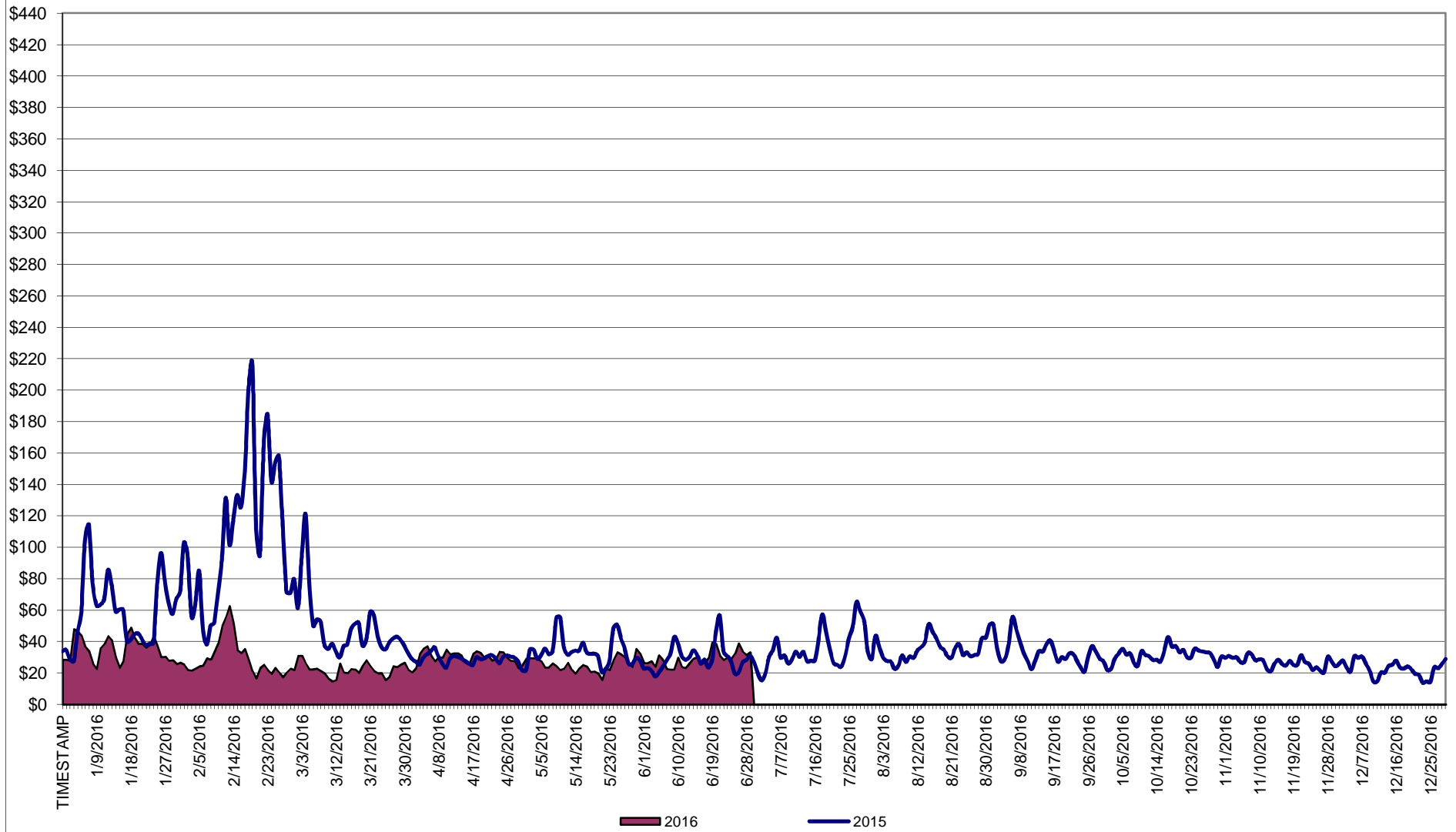




Market Performance Highlights for June 2016

- **LBMP for June is \$27.35/MWh; higher than \$23.31/MWh in May 2016 and lower than \$28.20/MWh in June 2015.**
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to May.
- **June 2016 average year-to-date monthly cost of \$29.93/MWh is a 47% decrease from \$56.02/MWh in June 2015.**
- **Average daily sendout is 456 GWh/day in June; higher than 397 GWh/day in May 2016 and higher than 450 GWh/day in June 2015.**
- **Natural gas prices and distillate prices were higher compared to the previous month.**
 - Natural Gas (Transco Z6 NY) was \$1.78/MMBtu, up from \$1.58/MMBtu in May.
 - Natural gas prices are down 24% year-over-year
 - Jet Kerosene Gulf Coast was \$10.21/MMBtu, up from \$9.66/MMBtu in May.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$10.64/MMBtu, up from \$10.17/MMBtu in May.
 - Distillate prices are down 21% year-over-year
- **Uplift per MWh is higher compared to the previous month.**
 - Uplift (not including NYISO cost of operations) is \$0.20/MWh; higher than \$0.19/MWh in May.
 - Local Reliability Share is \$0.21/MWh, lower than \$0.35/MWh in May.
 - Statewide Share is (\$0.01)/MWh, higher than (\$0.16)/MWh in May.
 - TSA \$ per NYC MWh is \$0.02/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than May.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
 2015 Annual Average \$44.10/MWh
 June 2015 YTD Average \$56.02/MWh
 June 2016 YTD Average \$29.93/MWh



* Excludes ICAP payments.

Data reflects true-ups thru December 2015.

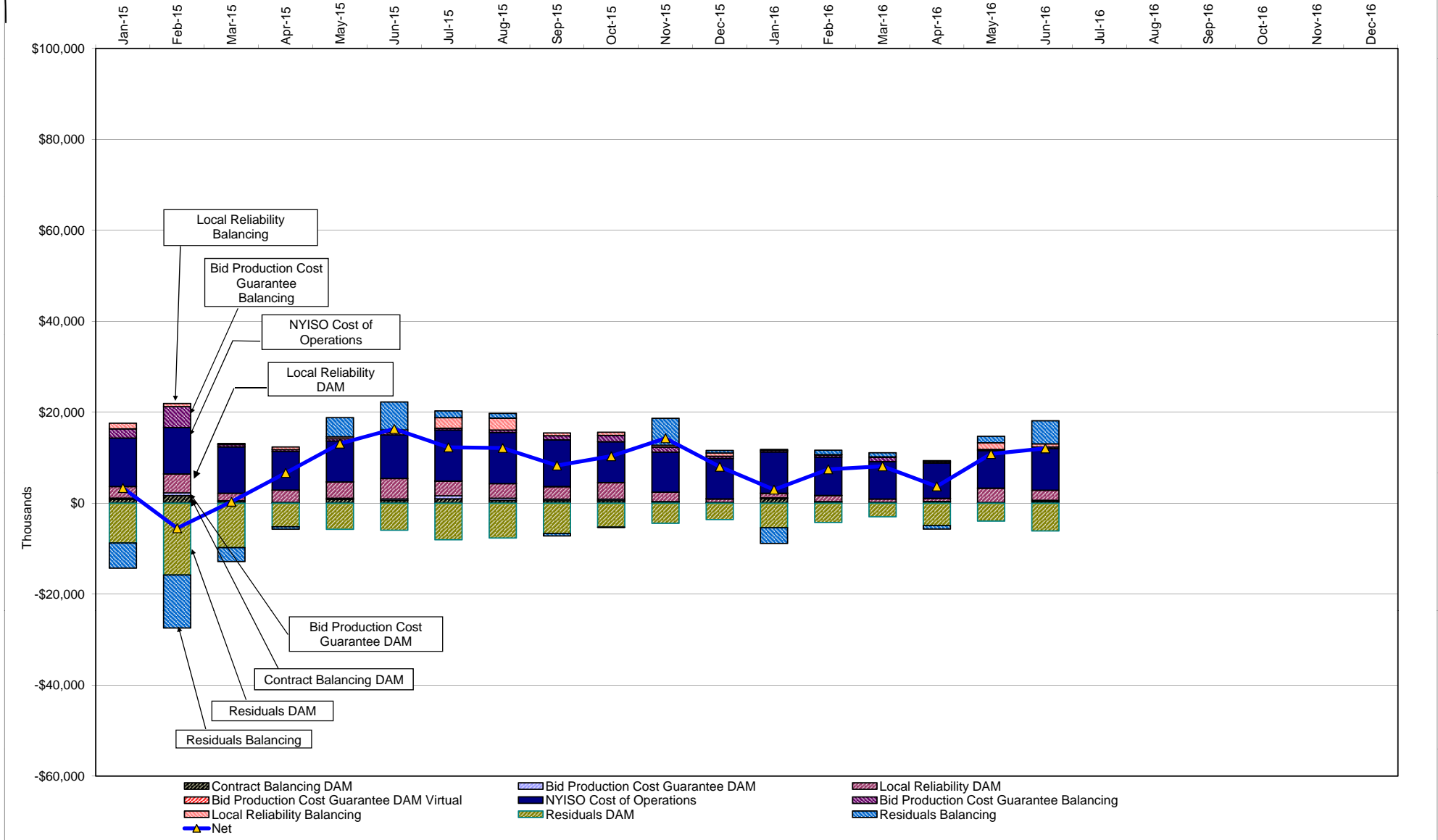
NYISO Average Cost/MWh (Energy and Ancillary Services) *
from the LBMP Customer point of view

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	27.35						
NTAC	0.59	0.78	0.62	1.14	1.10	0.93						
Reserve	0.77	0.73	0.73	0.87	0.71	0.59						
Regulation	0.12	0.12	0.12	0.12	0.11	0.12						
NYISO Cost of Operations	0.64	0.65	0.65	0.64	0.65	0.66						
FERC Fee Recovery	0.09	0.10	0.11	0.10	0.09	0.09						
Uplift	(0.43)	(0.07)	(0.03)	(0.34)	0.19	0.20						
Uplift: Local Reliability Share	0.09	0.11	0.06	0.07	0.35	0.21						
Uplift: Statewide Share	(0.52)	(0.18)	(0.09)	(0.41)	(0.16)	(0.01)						
Voltage Support and Black Start	0.35	0.36	0.36	0.35	0.36	0.36						
Avg Monthly Cost	36.42	31.37	23.23	30.84	26.52	30.29						
Avg YTD Cost	36.42	34.02	30.68	30.71	29.85	29.93						
TSA \$ per NYC MWh	0.00	0.00	0.05	0.00	0.00	0.02						
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: 7/7/2016 2:37 PM

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

NYISO Dollar Flows - Uplift- OATT Schedule 1 components - Data through June 30, 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	14,095,904						
DAM LSE Internal LBMP Energy Sales	54%	55%	55%	57%	58%	60%						
DAM External TC LBMP Energy Sales	4%	2%	1%	5%	2%	1%						
DAM Bilateral - Internal Bilaterals	34%	34%	35%	28%	31%	30%						
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%						
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	2%	2%	2%	2%						
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%						
Balancing Energy Market MWh	-522,919	-580,900	-741,701	-303,313	-180,848	-143,015						
Balancing Energy LSE Internal LBMP Energy Sales	-125%	-114%	-118%	-76%	-147%	-203%						
Balancing Energy External TC LBMP Energy Sales	12%	13%	19%	-13%	55%	77%						
Balancing Energy Bilateral - Internal Bilaterals	19%	9%	4%	8%	27%	47%						
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%						
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	5%	3%	5%	7%	10%						
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-12%	-8%	-24%	-42%	-32%						
Transactions Summary												
LBMP	56%	56%	54%	62%	59%	61%						
Internal Bilaterals	36%	36%	37%	29%	32%	31%						
Import Bilaterals	5%	5%	6%	6%	5%	5%						
Export Bilaterals	2%	2%	2%	2%	2%	2%						
Wheels Through	1%	1%	1%	1%	2%	2%						
Market Share of Total Load												
Day Ahead Market	103.7%	104.5%	105.9%	102.5%	101.4%	101.0%						
Balancing Energy +	-3.7%	-4.5%	-5.9%	-2.5%	-1.4%	-1.0%						
Total MWh	14,237,996	13,033,853	12,672,080	12,192,828	12,779,038	13,952,889						
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456						

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	\$24.83						
Standard Deviation	\$10.86	\$12.46	\$6.99	\$6.95	\$7.04	\$9.21						
Load Weighted Price **	\$32.13	\$26.75	\$19.37	\$27.14	\$22.12	\$26.30						
<u>RTC LBMP</u>												
Price *	\$26.12	\$24.10	\$16.41	\$23.41	\$19.96	\$24.29						
Standard Deviation	\$16.06	\$17.89	\$11.32	\$9.09	\$11.44	\$16.58						
Load Weighted Price **	\$27.16	\$25.29	\$17.11	\$24.10	\$21.23	\$25.73						
<u>REAL TIME LBMP</u>												
Price *	\$30.15	\$24.28	\$17.84	\$25.71	\$20.67	\$25.87						
Standard Deviation	\$60.09	\$18.19	\$15.06	\$16.59	\$12.84	\$19.27						
Load Weighted Price **	\$31.80	\$25.61	\$18.64	\$26.57	\$21.99	\$27.39						
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456						

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

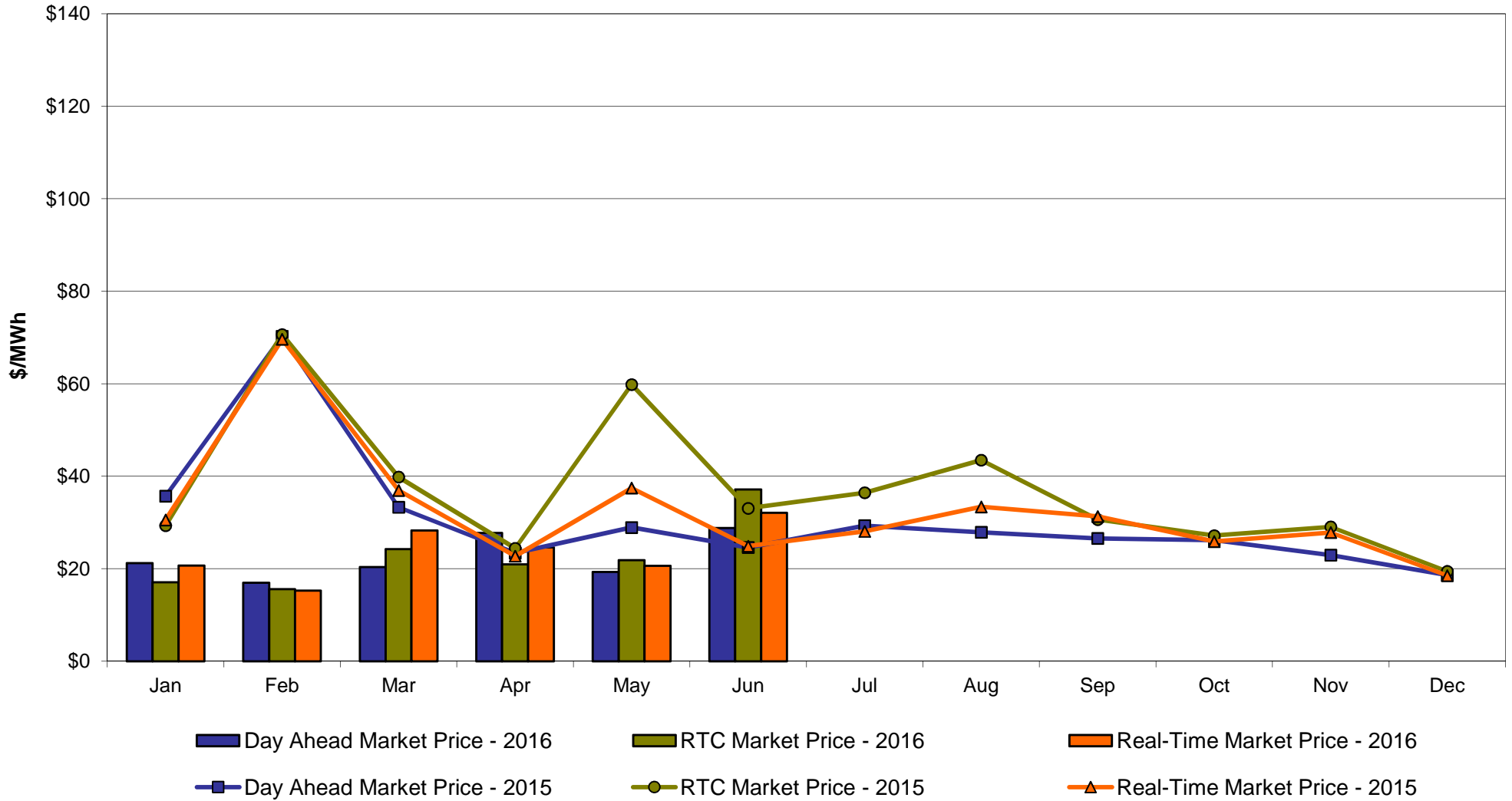


June 2016 Zonal LBMP Statistics for NYISO (\$/MWh)

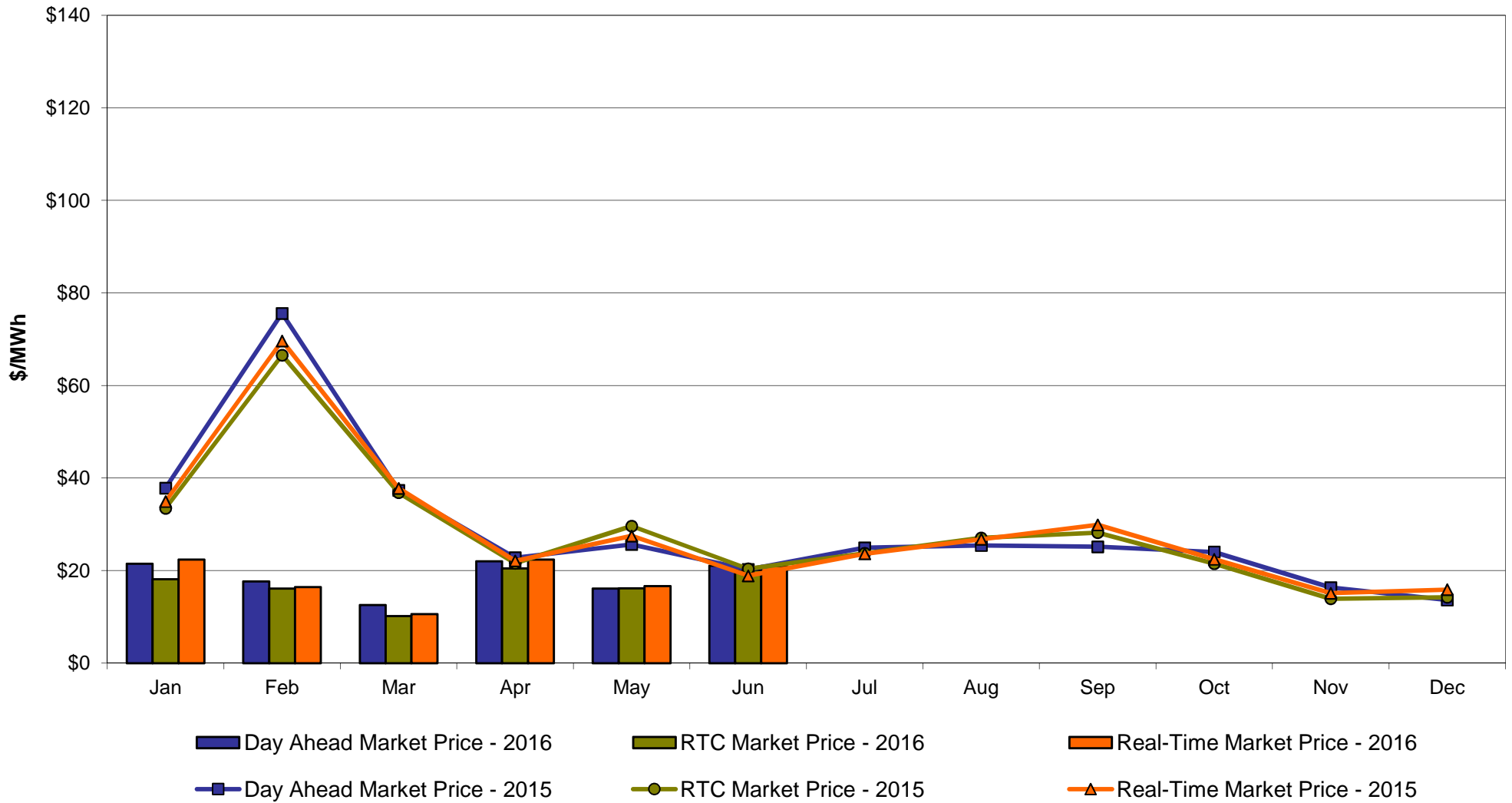
	<u>WEST Zone A</u>	<u>GENESEE Zone B</u>	<u>NORTH Zone D</u>	<u>CENTRAL Zone C</u>	<u>MOHAWK VALLEY Zone E</u>	<u>CAPITAL Zone F</u>	<u>HUDSON VALLEY Zone G</u>	<u>MILLWOOD Zone H</u>	<u>DUNWOODIE Zone I</u>	<u>NEW YORK CITY Zone J</u>	<u>LONG ISLAND Zone K</u>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	28.80	20.42	17.25	21.06	20.84	23.41	24.57	24.79	24.81	25.47	28.01
Standard Deviation	19.34	8.13	7.31	8.45	7.93	7.14	8.01	8.08	8.08	8.47	10.64
<u>RTC LBMP</u>											
Unweighted Price *	37.13	19.31	17.38	20.16	19.70	21.24	22.13	22.31	22.24	23.64	27.88
Standard Deviation	104.62	10.74	9.95	11.58	9.44	8.59	9.09	9.25	9.21	12.53	46.55
<u>REAL TIME LBMP</u>											
Unweighted Price *	32.08	20.33	18.48	20.98	20.87	22.55	23.78	24.02	23.93	26.99	30.19
Standard Deviation	72.91	13.42	13.02	13.97	13.13	12.71	14.20	14.58	14.44	24.80	38.14
	<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>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	18.41	18.32	18.32	23.72	23.68	27.70	25.81	26.64	24.75	24.92	16.86
Standard Deviation	6.44	7.92	7.92	8.68	7.40	10.58	8.63	9.17	7.86	8.10	6.97
<u>RTC LBMP</u>											
Unweighted Price *	15.42	17.25	17.25	22.67	20.58	27.41	27.08	26.04	22.14	22.28	17.12
Standard Deviation	17.51	10.13	10.13	15.77	17.18	46.85	46.75	42.11	9.08	9.18	9.83
<u>REAL TIME LBMP</u>											
Unweighted Price *	17.95	18.07	18.06	23.29	22.32	29.75	23.00	28.40	23.87	23.99	17.94
Standard Deviation	18.53	11.81	11.80	16.23	13.91	38.01	63.31	34.78	14.36	14.44	12.63

* Straight LBMP averages

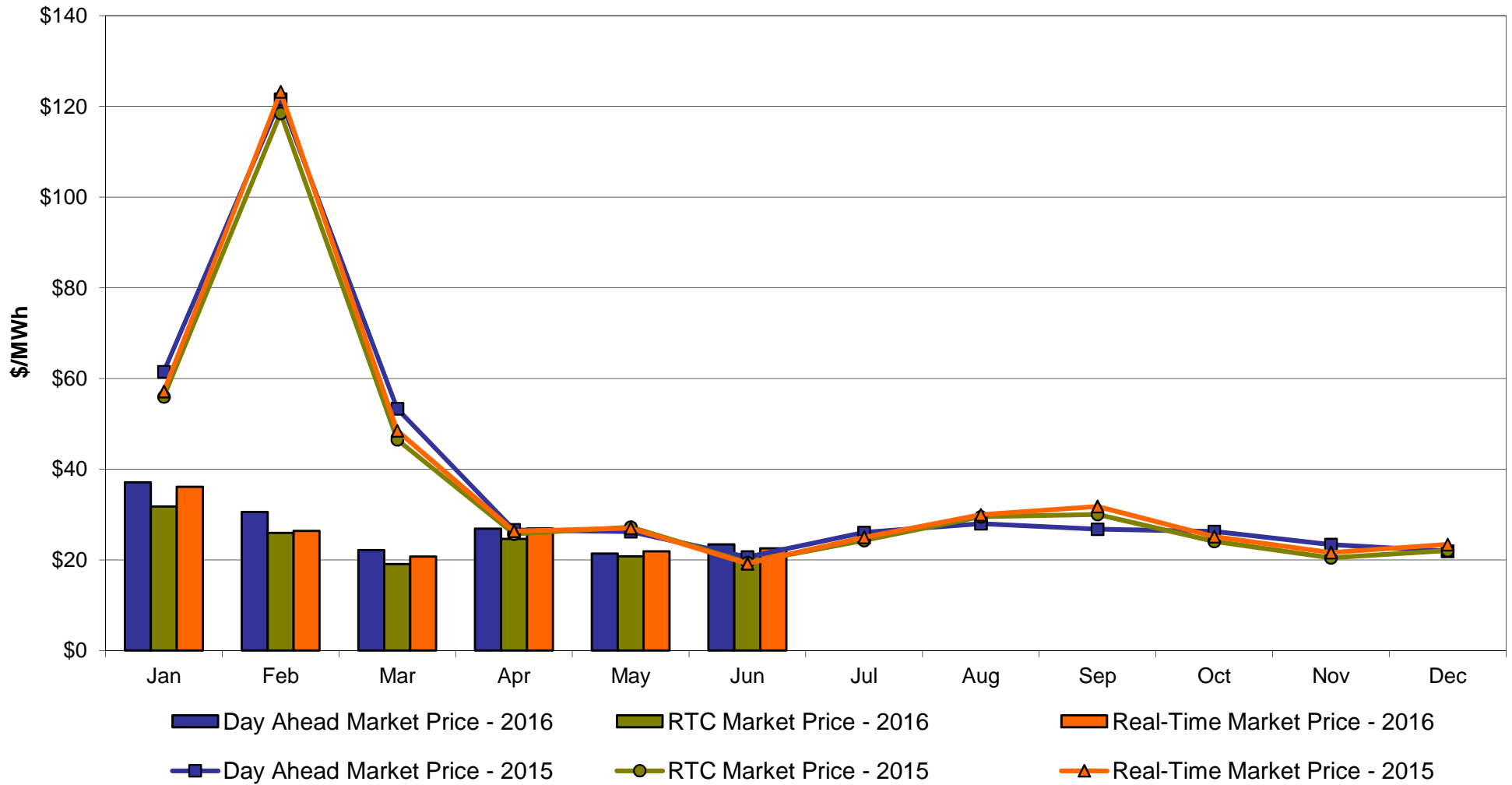
West Zone A Monthly Average LBMP Prices 2015 - 2016



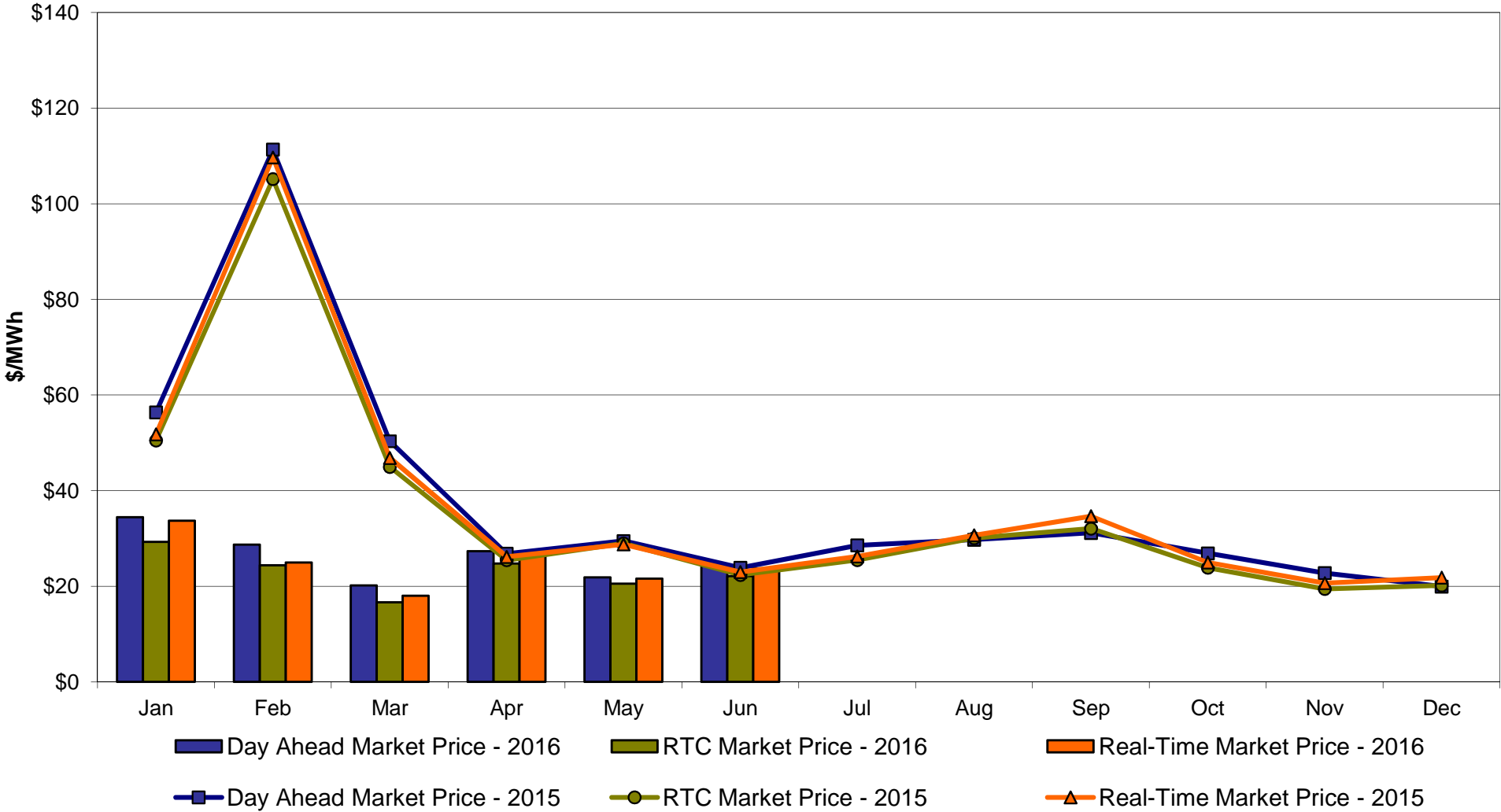
**Central Zone C
Monthly Average LBMP Prices 2015 - 2016**



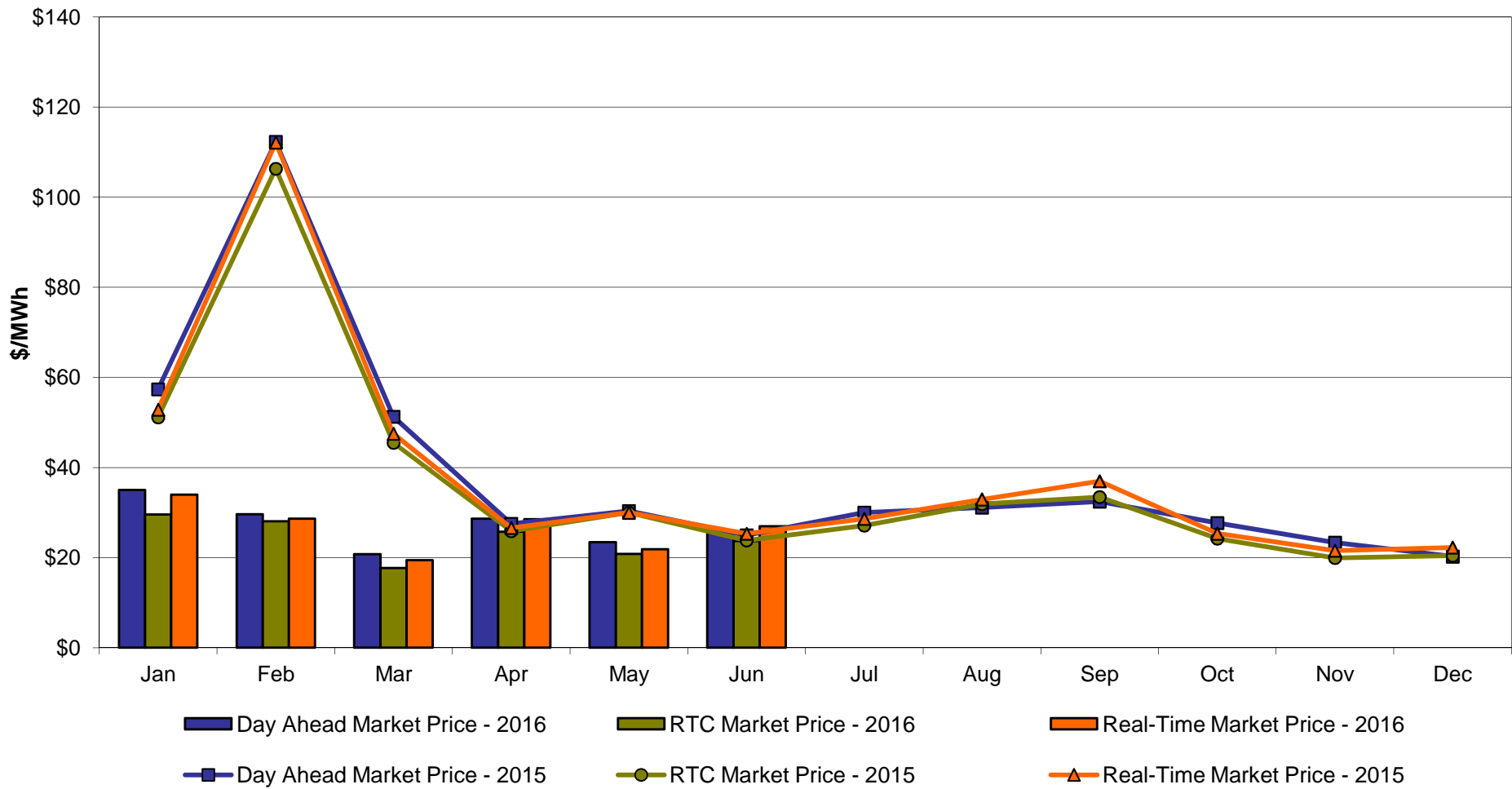
Capital Zone F Monthly Average LBMP Prices 2015 - 2016



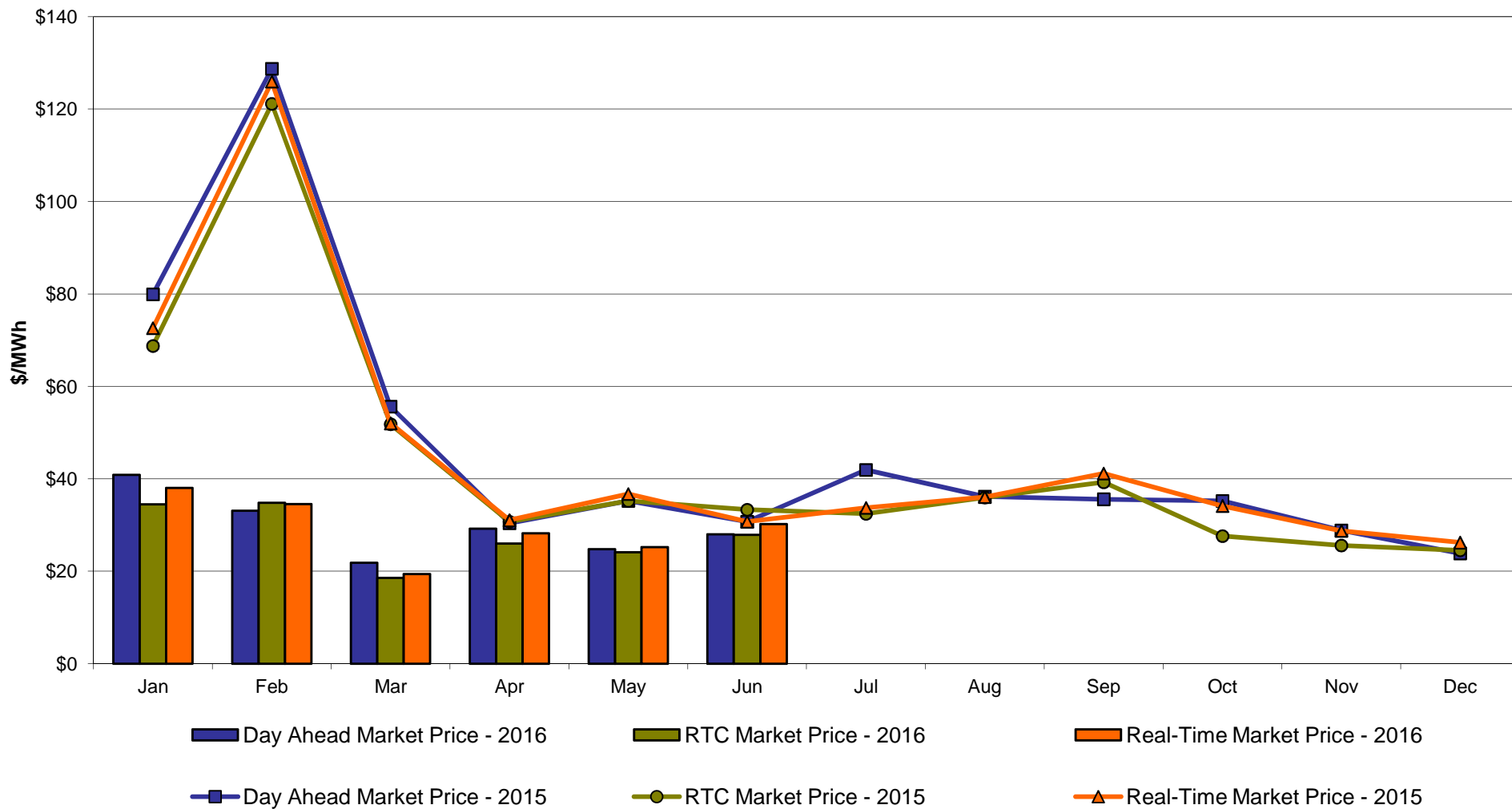
Hudson Valley Zone G Monthly Average LBMP Prices 2015 - 2016



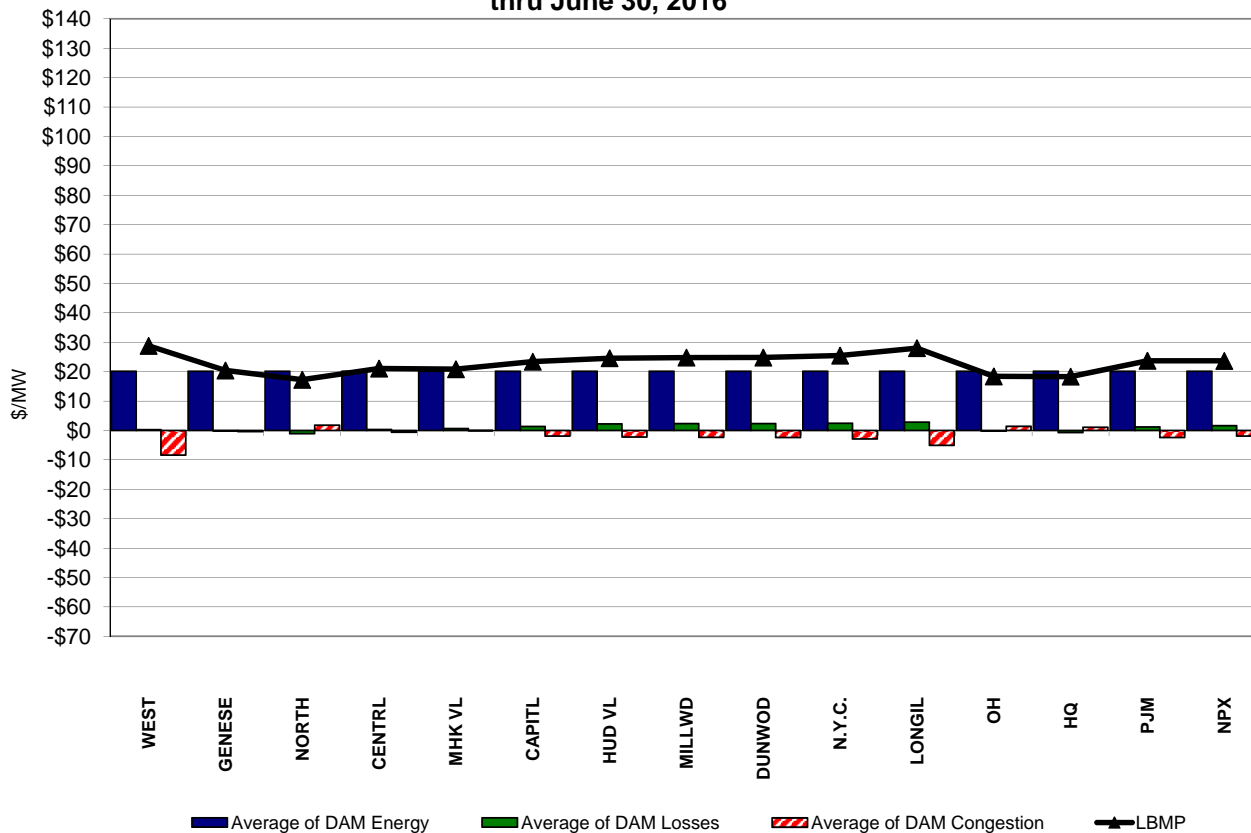
NYC Zone J Monthly Average LBMP Prices 2015 - 2016



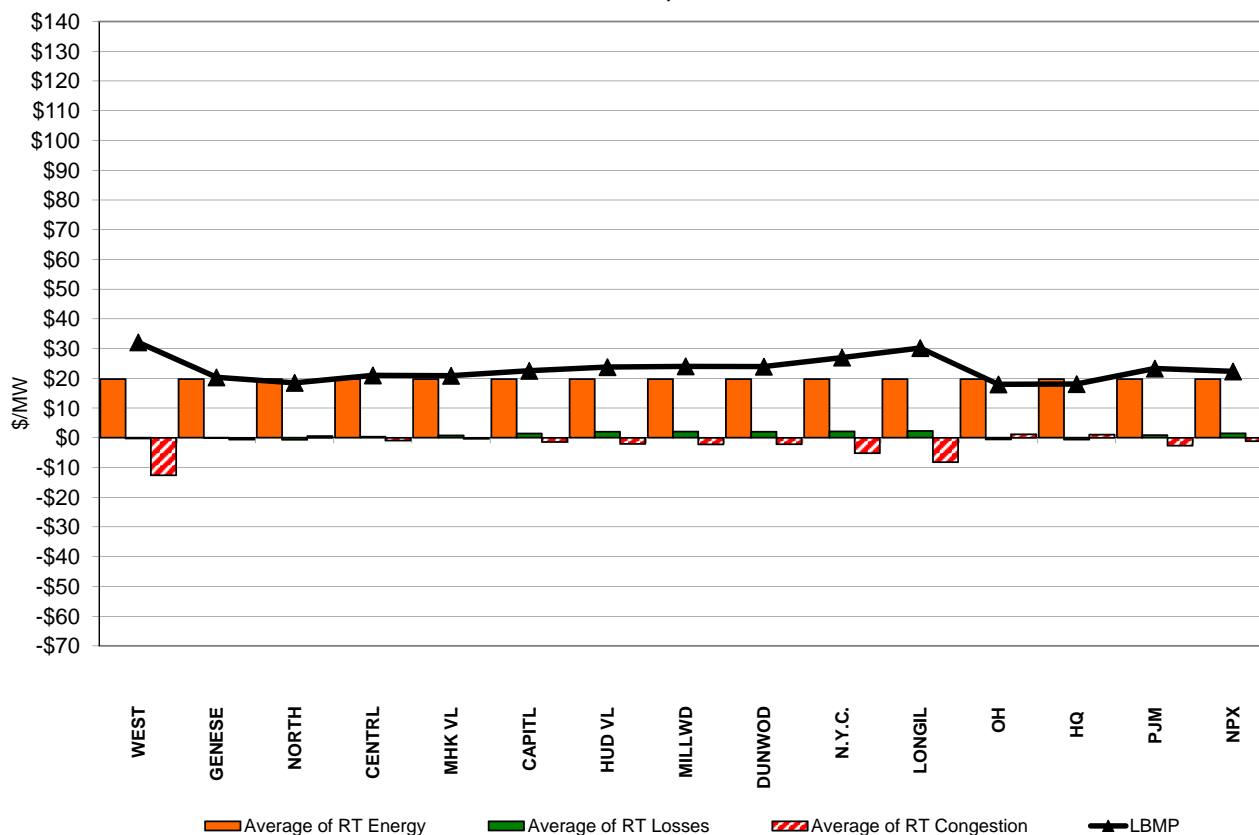
Long Island Zone K Monthly Average LBMP Prices 2015 - 2016



DAM Zonal Unweighted Monthly Average LBMP Components thru June 30, 2016

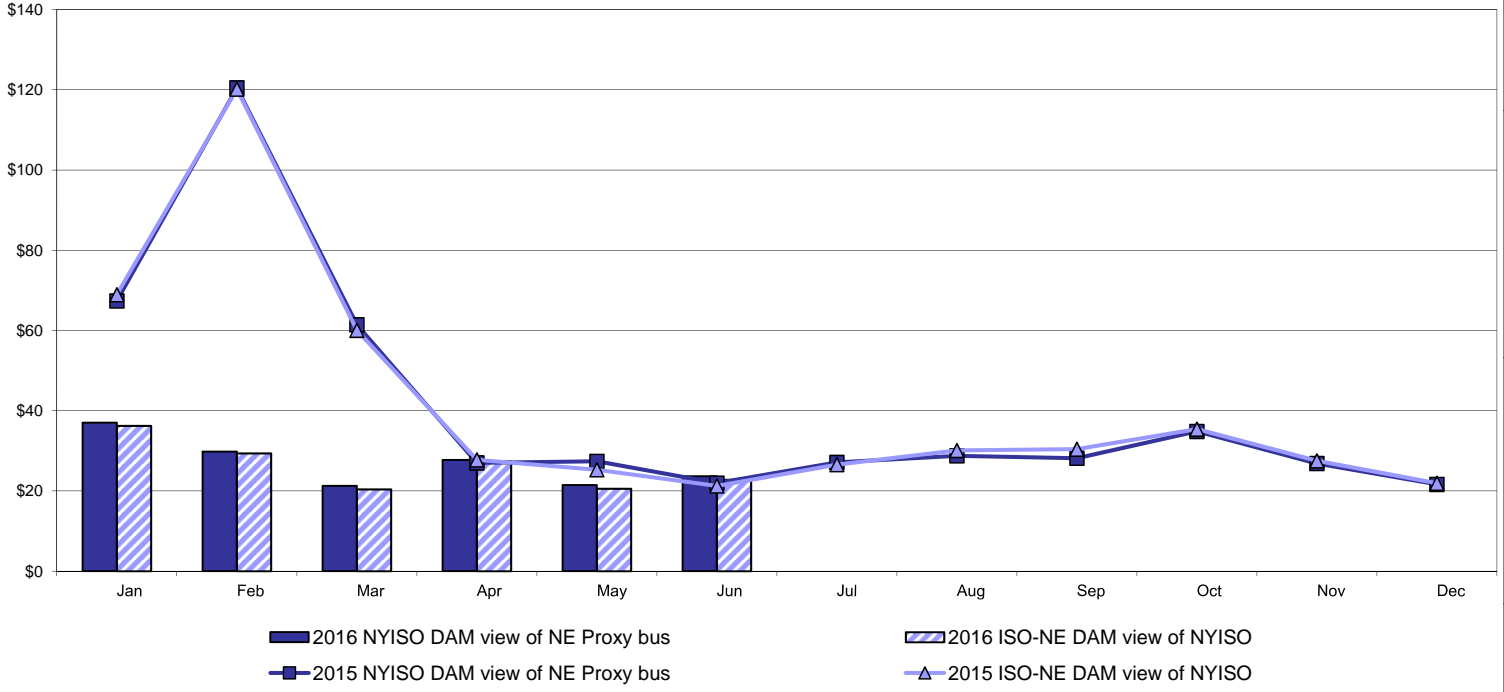


RT Zonal Unweighted Monthly Average LBMP Components thru June 30, 2016

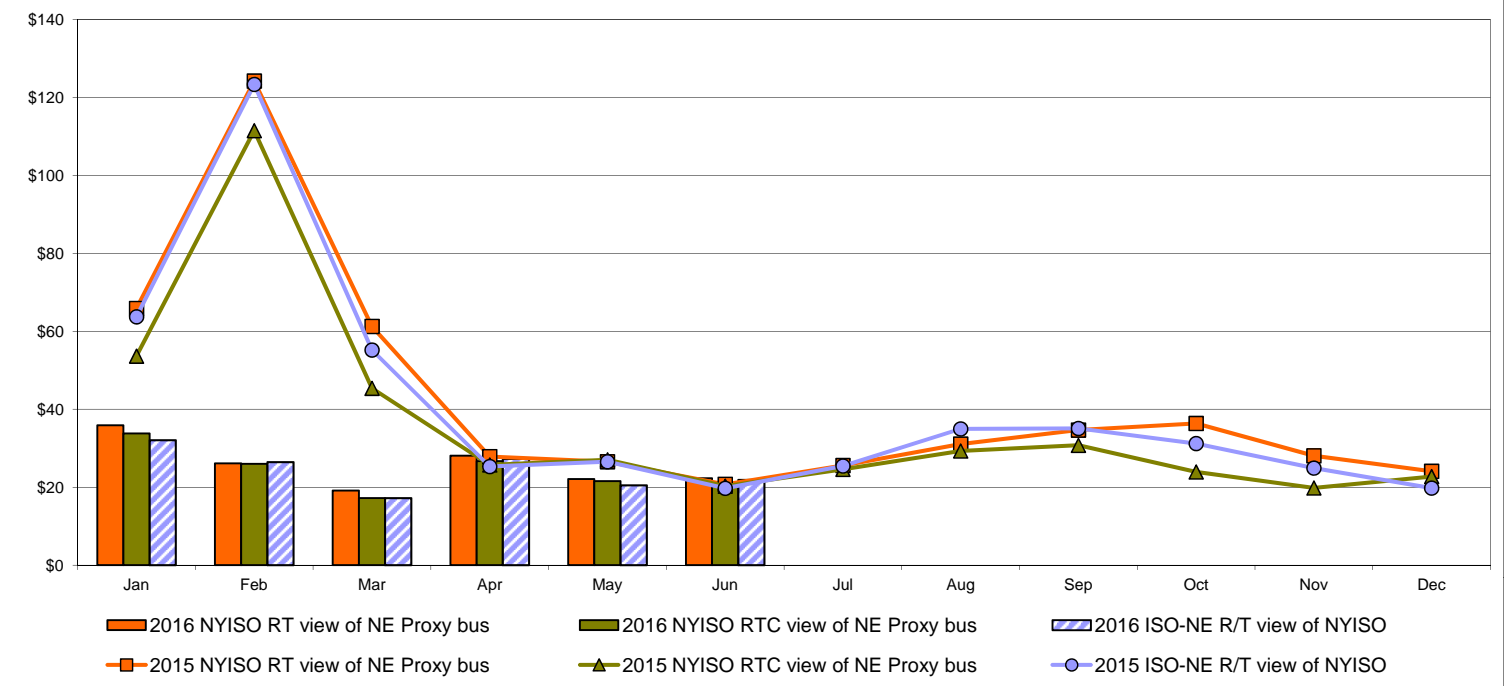


External Comparison ISO-New England

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

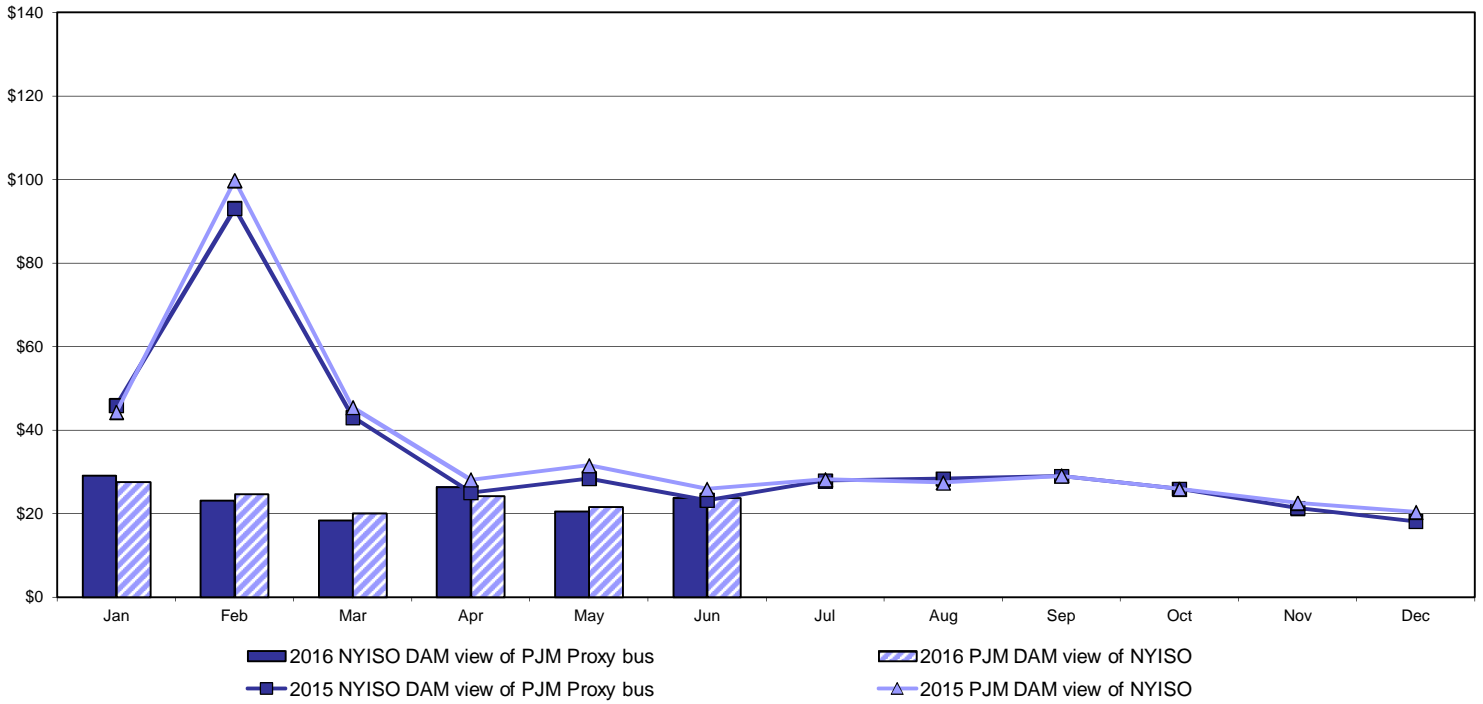


Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

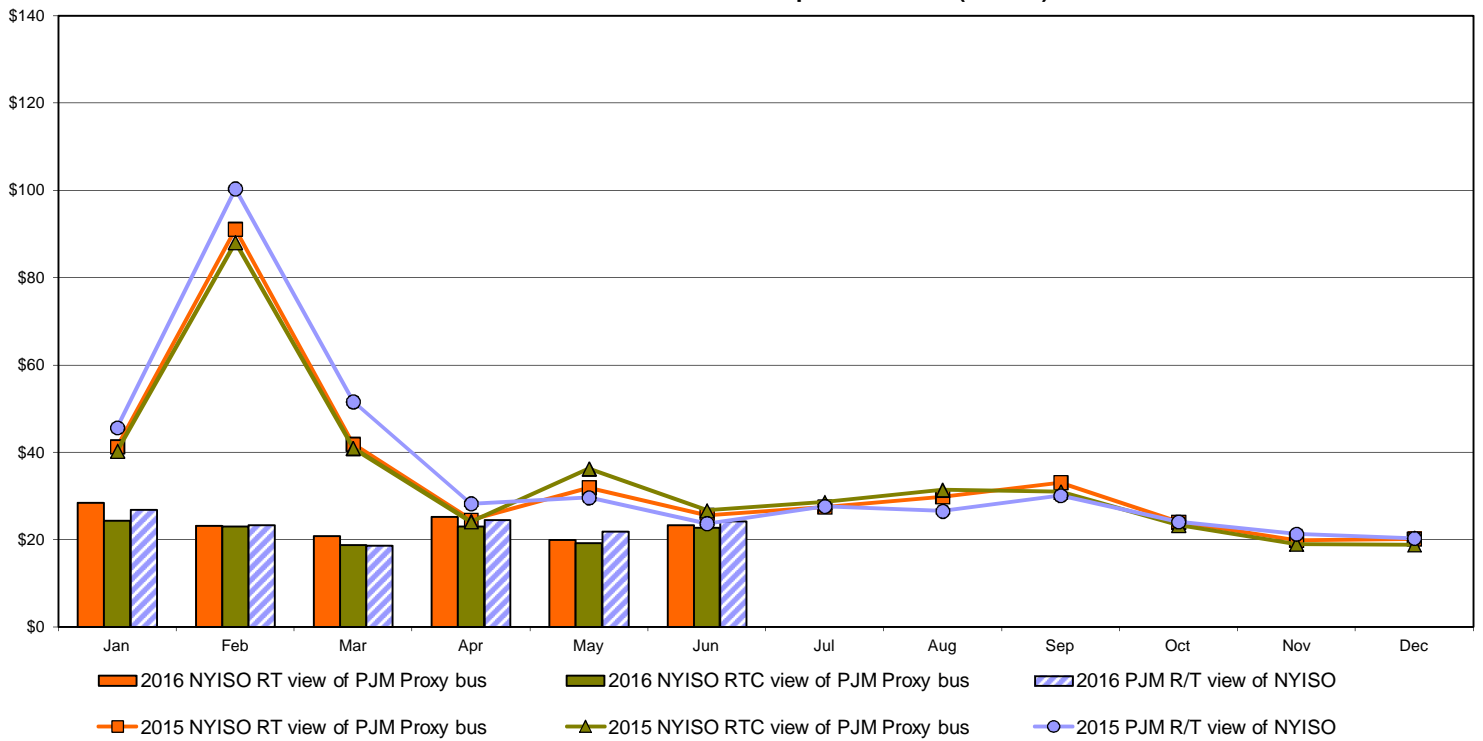


External Comparison PJM

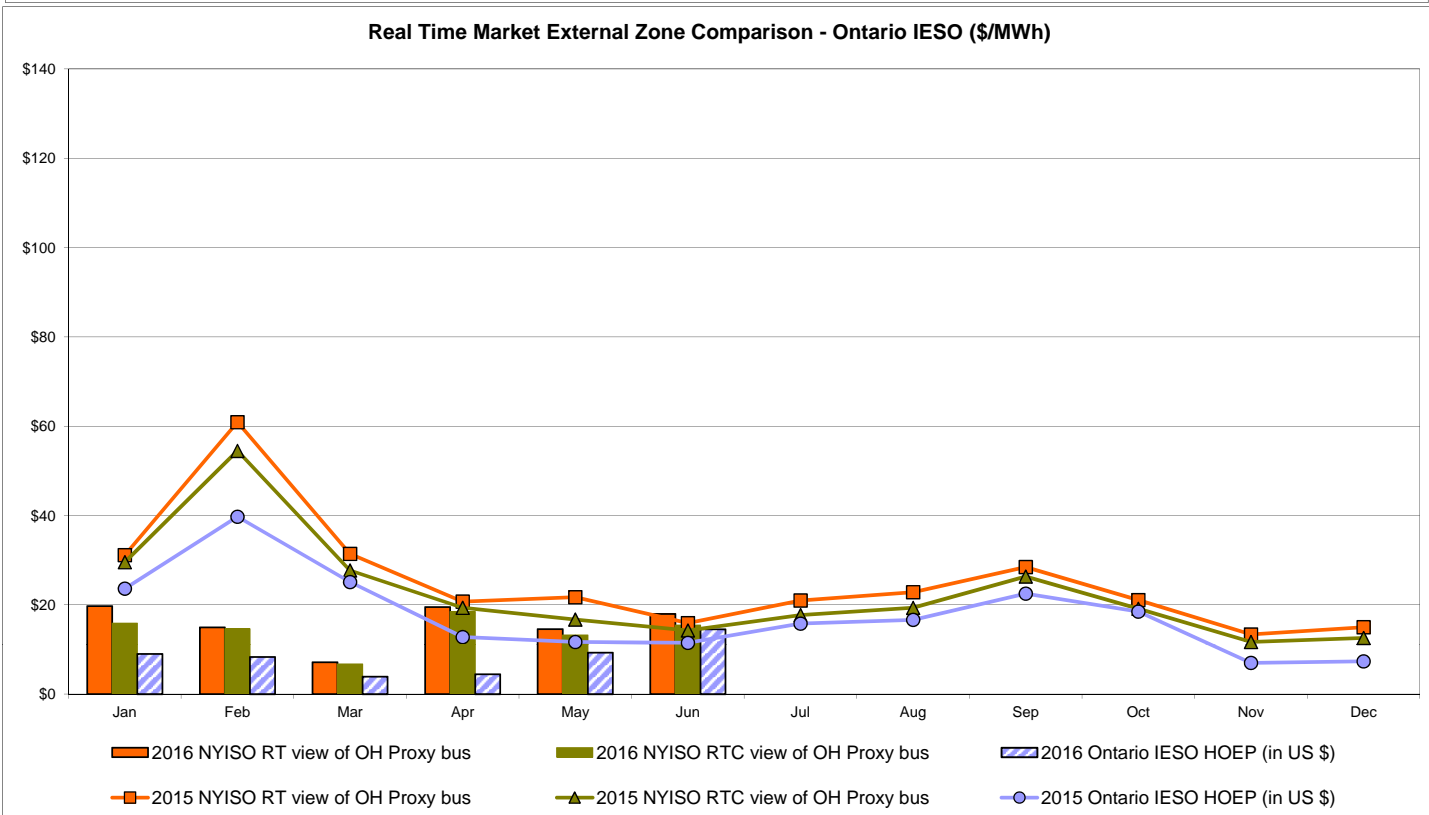
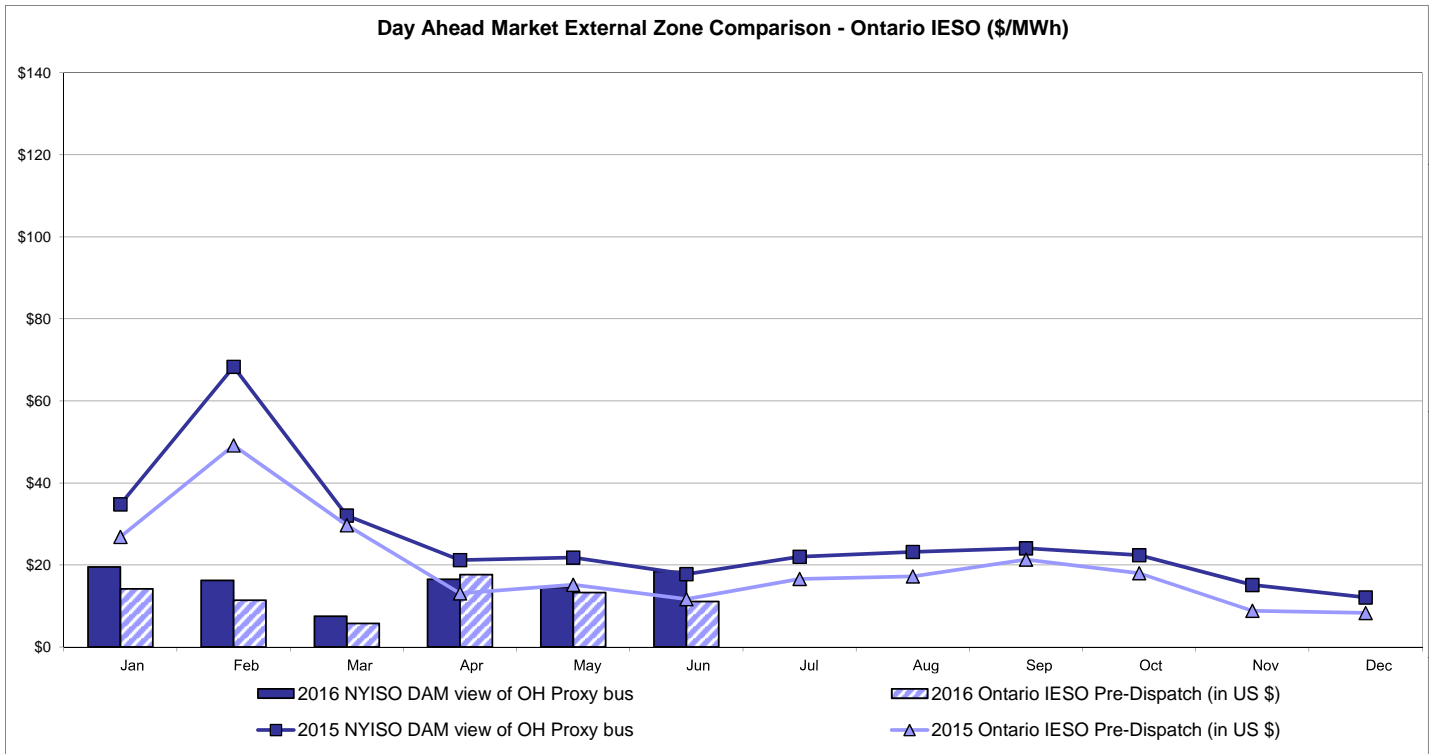
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

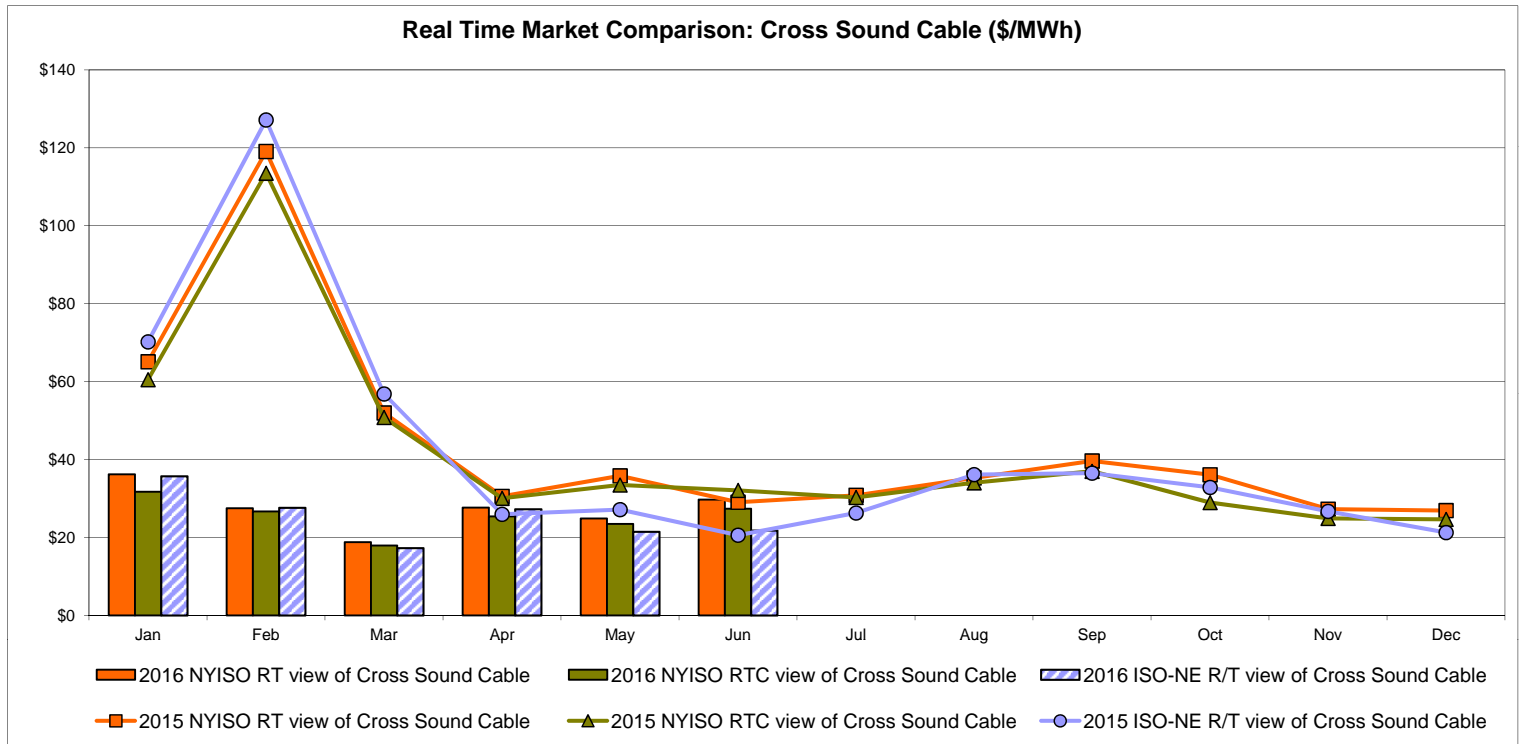
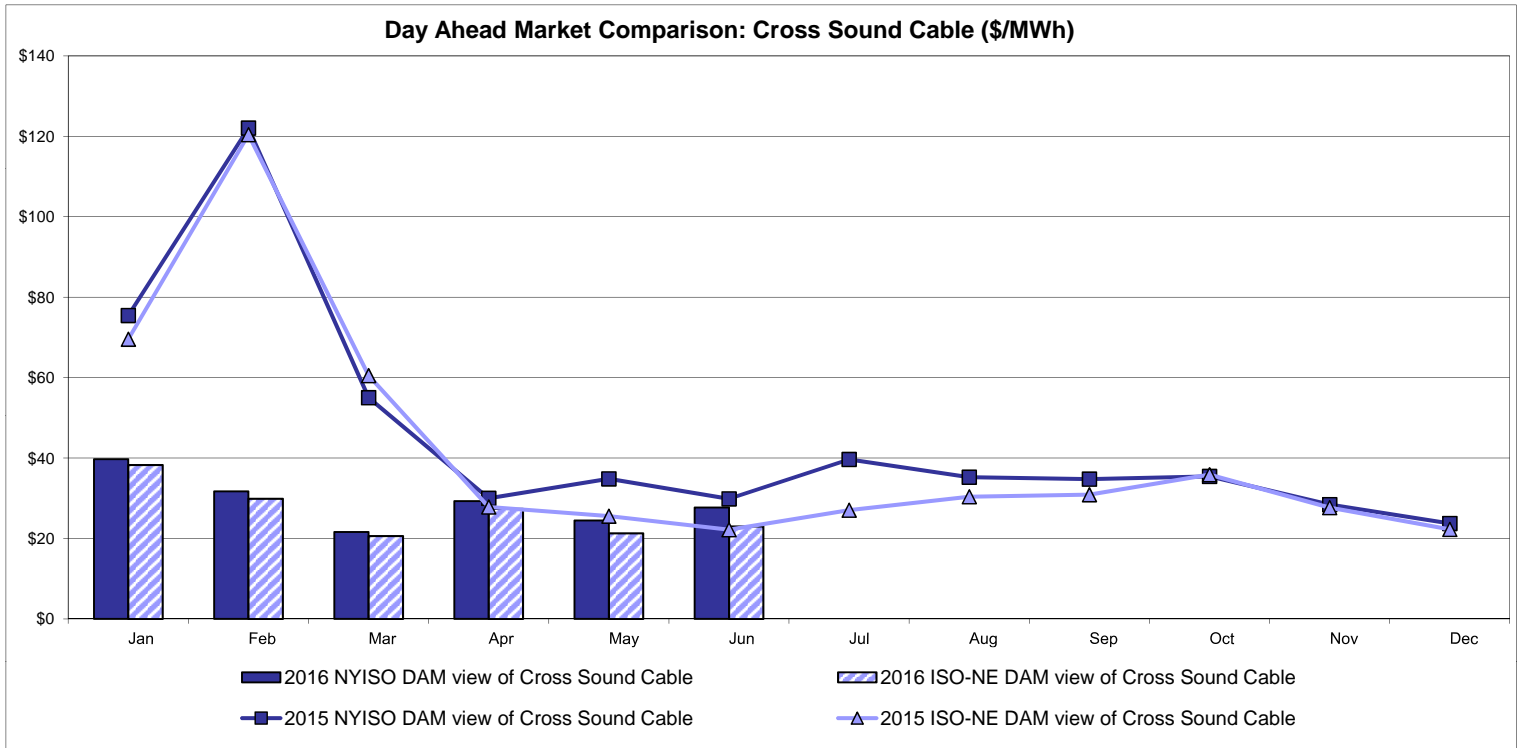


External Comparison Ontario IESO



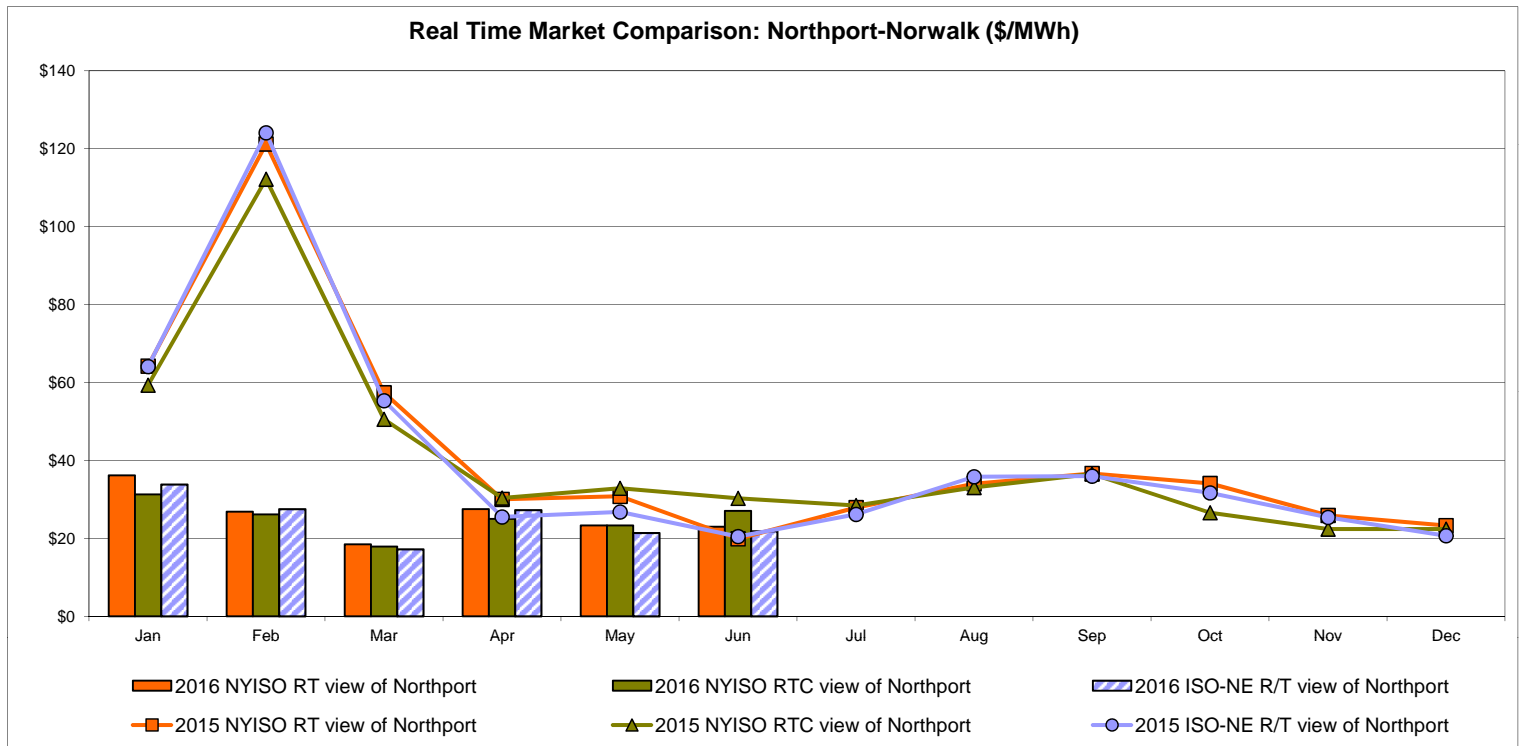
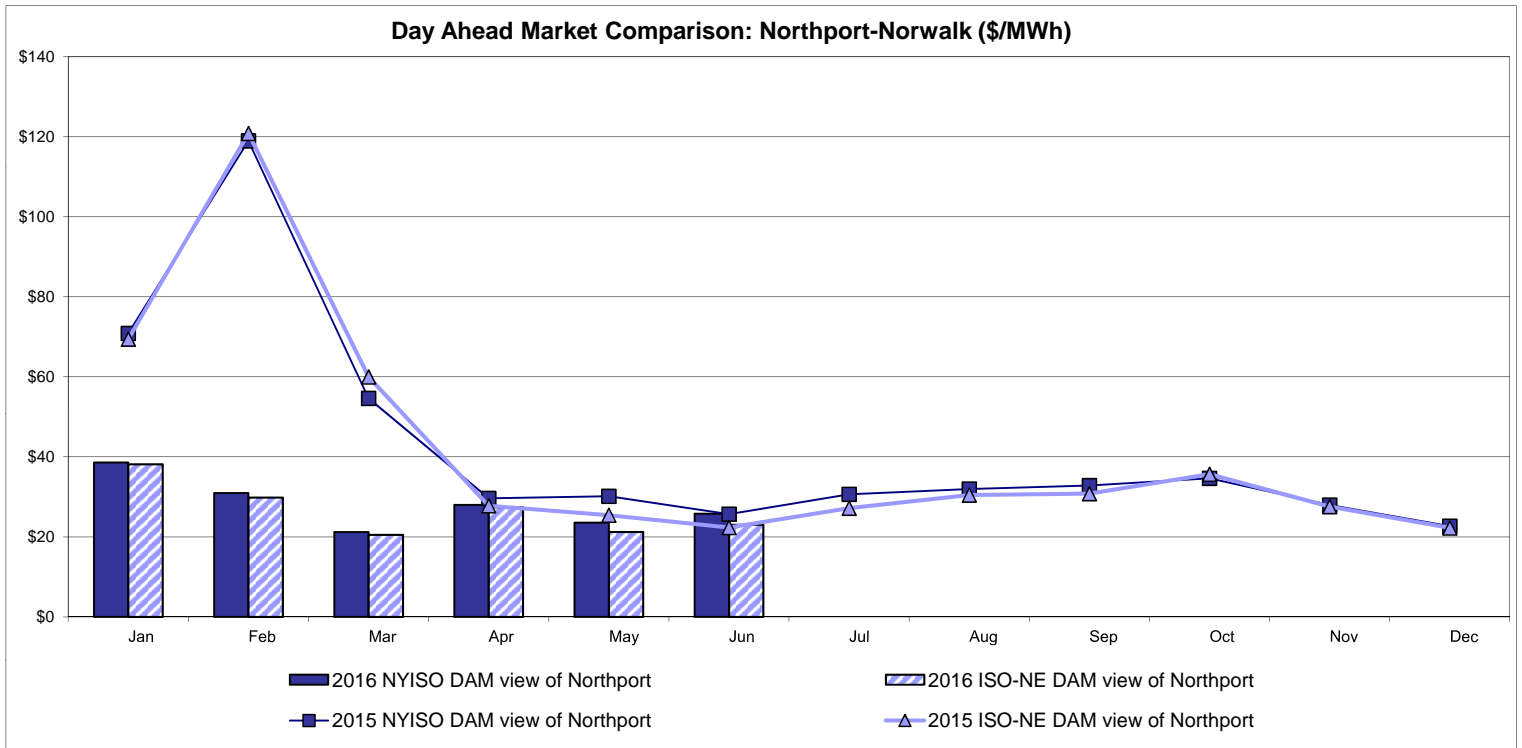
Notes: Exchange factor used for June 2016 was 0.7775 to US
 HOEP: Hourly Ontario Energy Price
 Pre-Dispatch: Projected Energy Price

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.

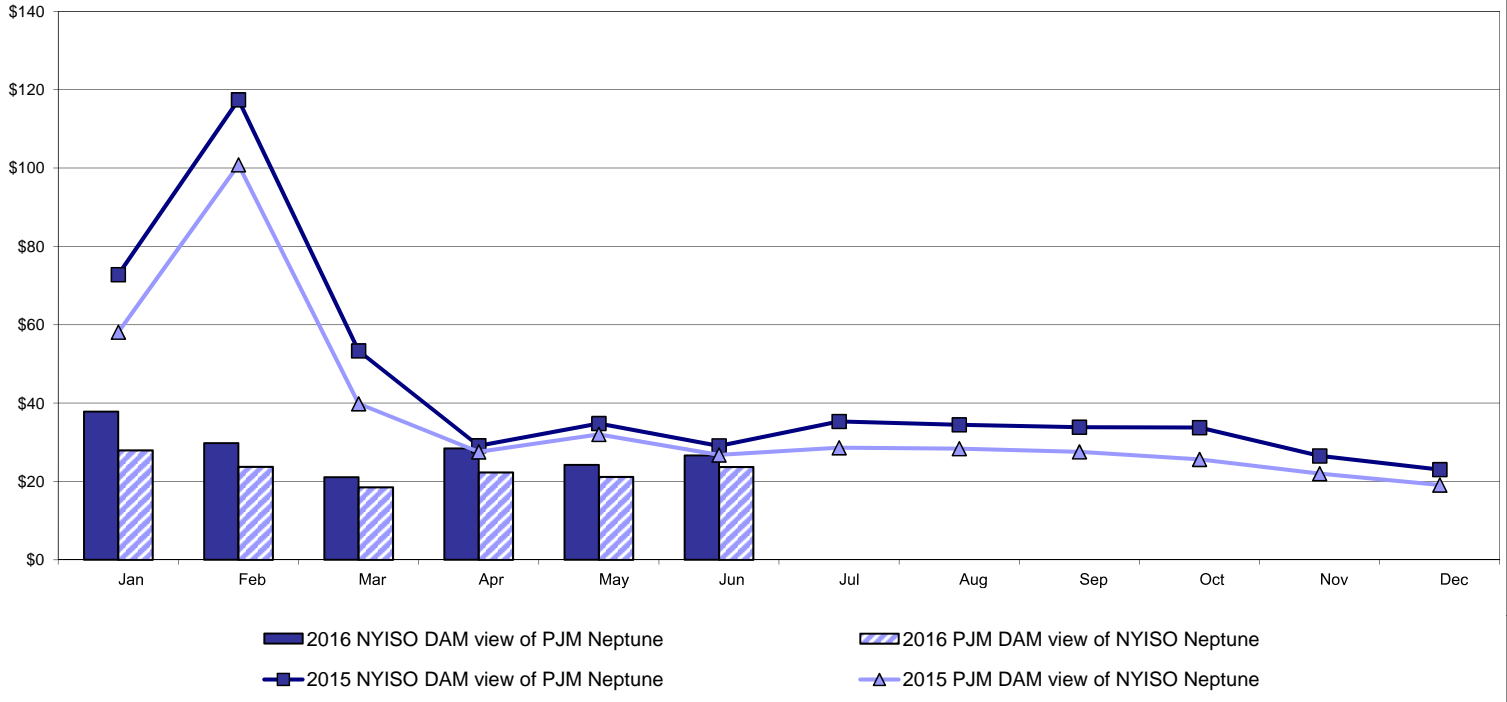
External Controllable Line: Northport - Norwalk (New England)



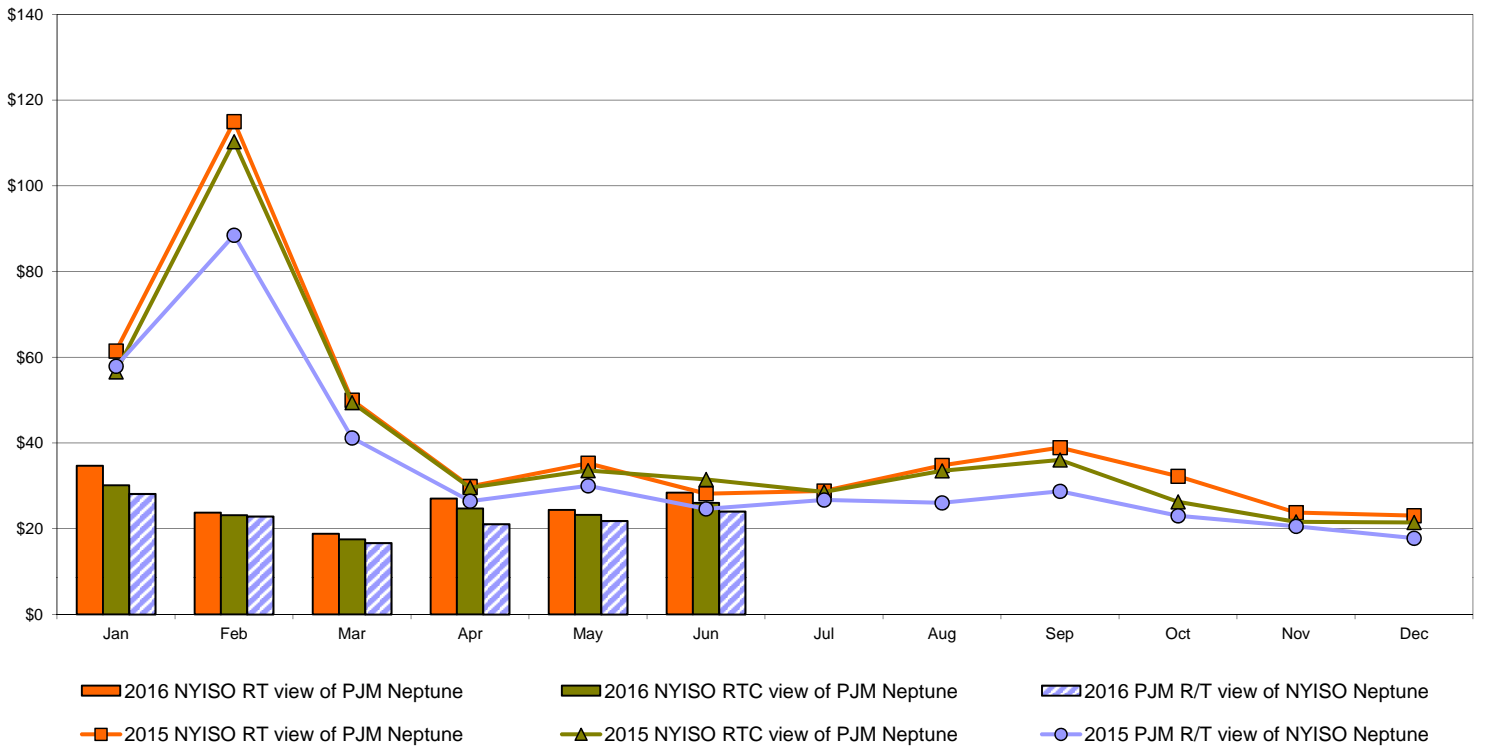
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

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

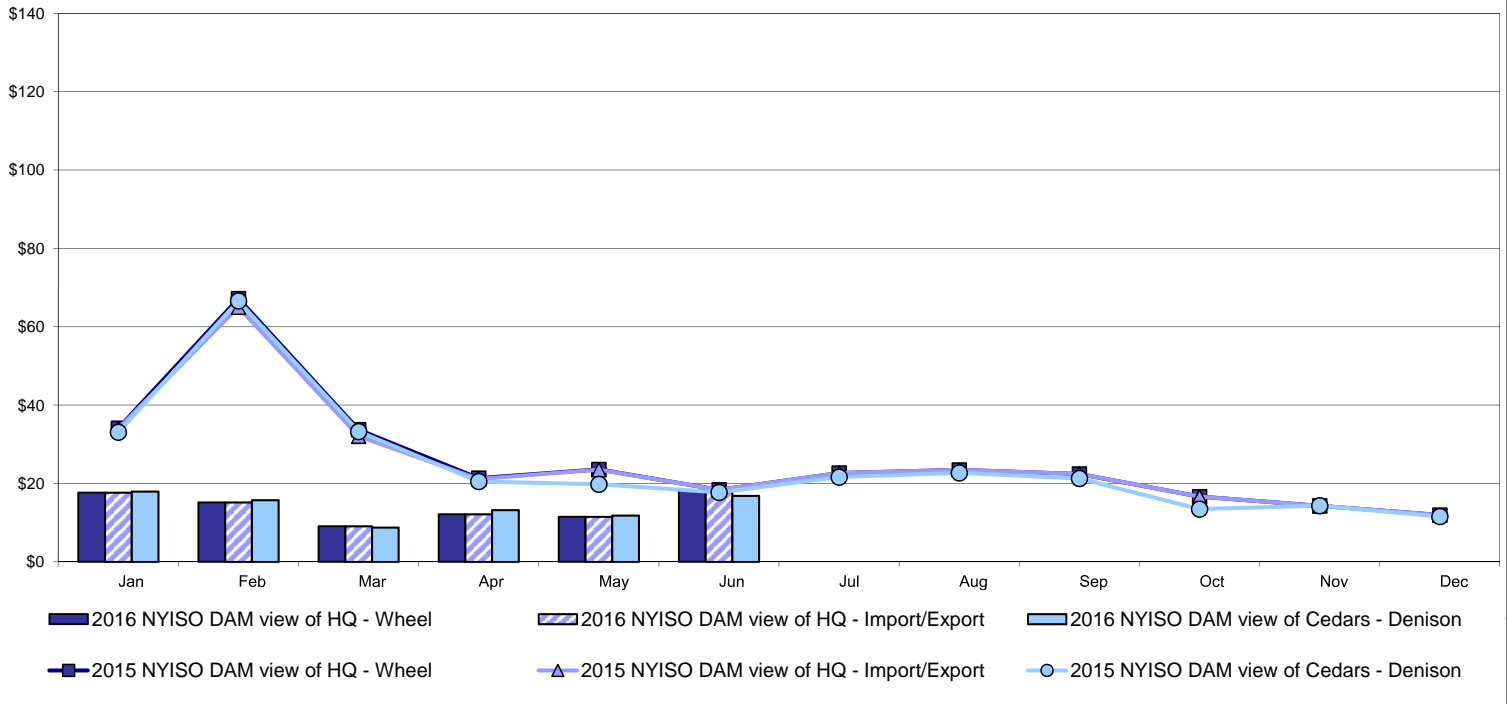


Real Time Market Comparison: Neptune (\$/MWh)

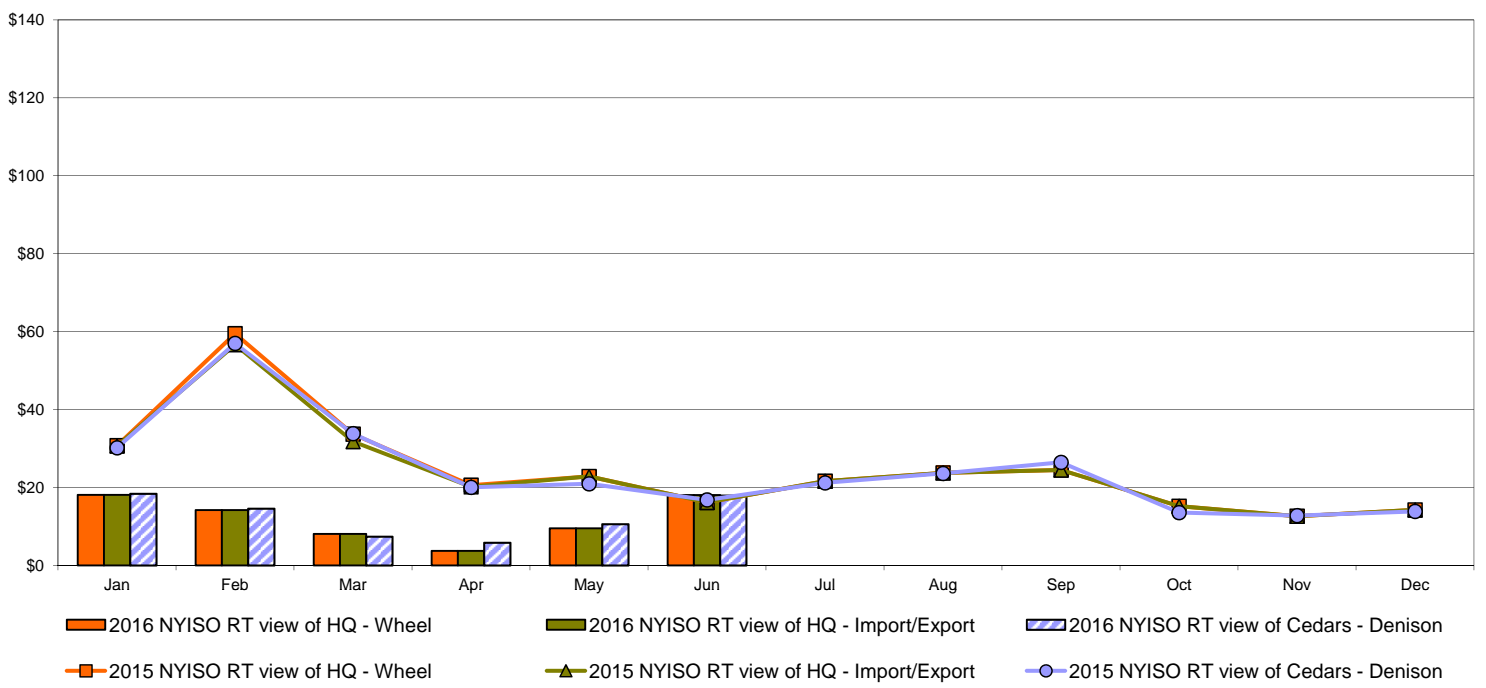


External Comparison Hydro-Quebec

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

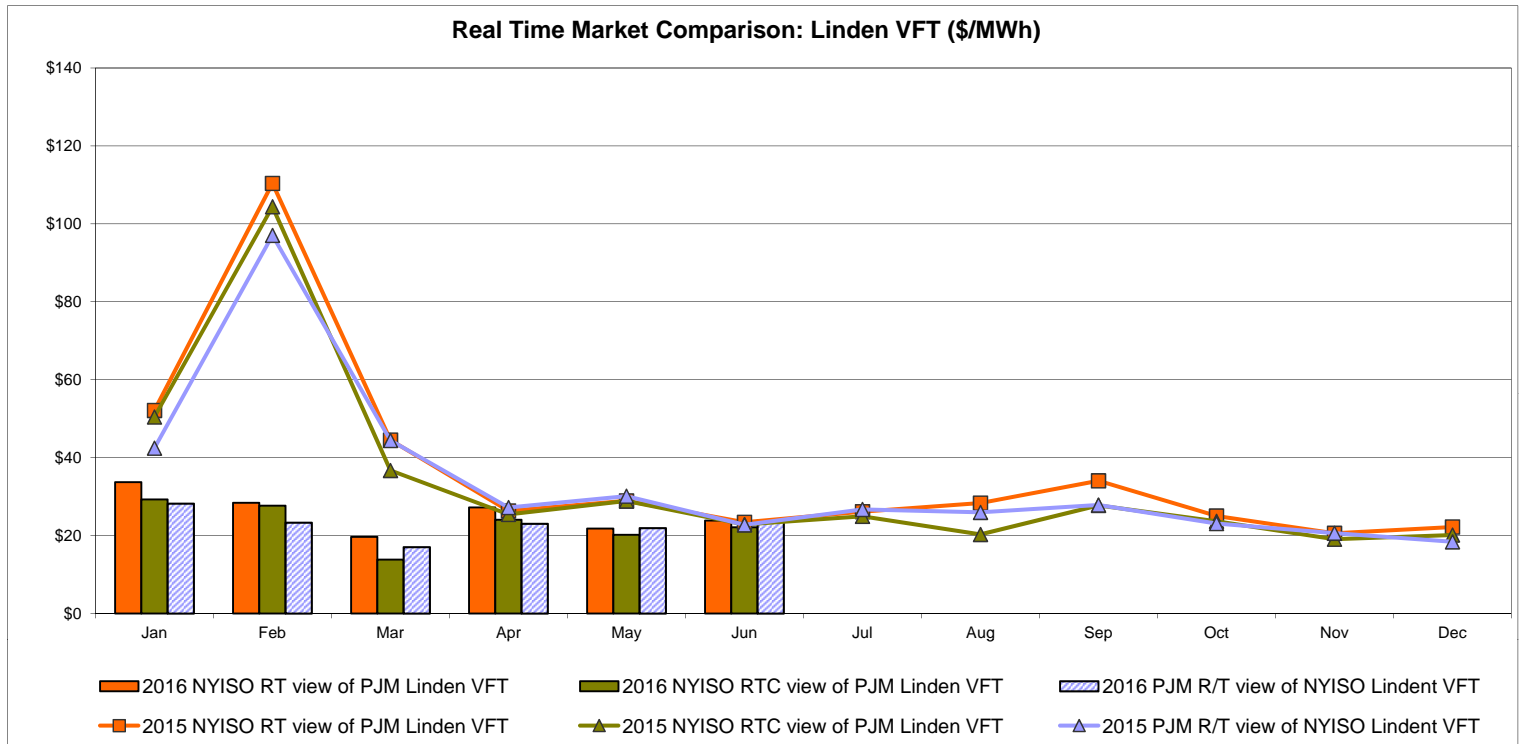
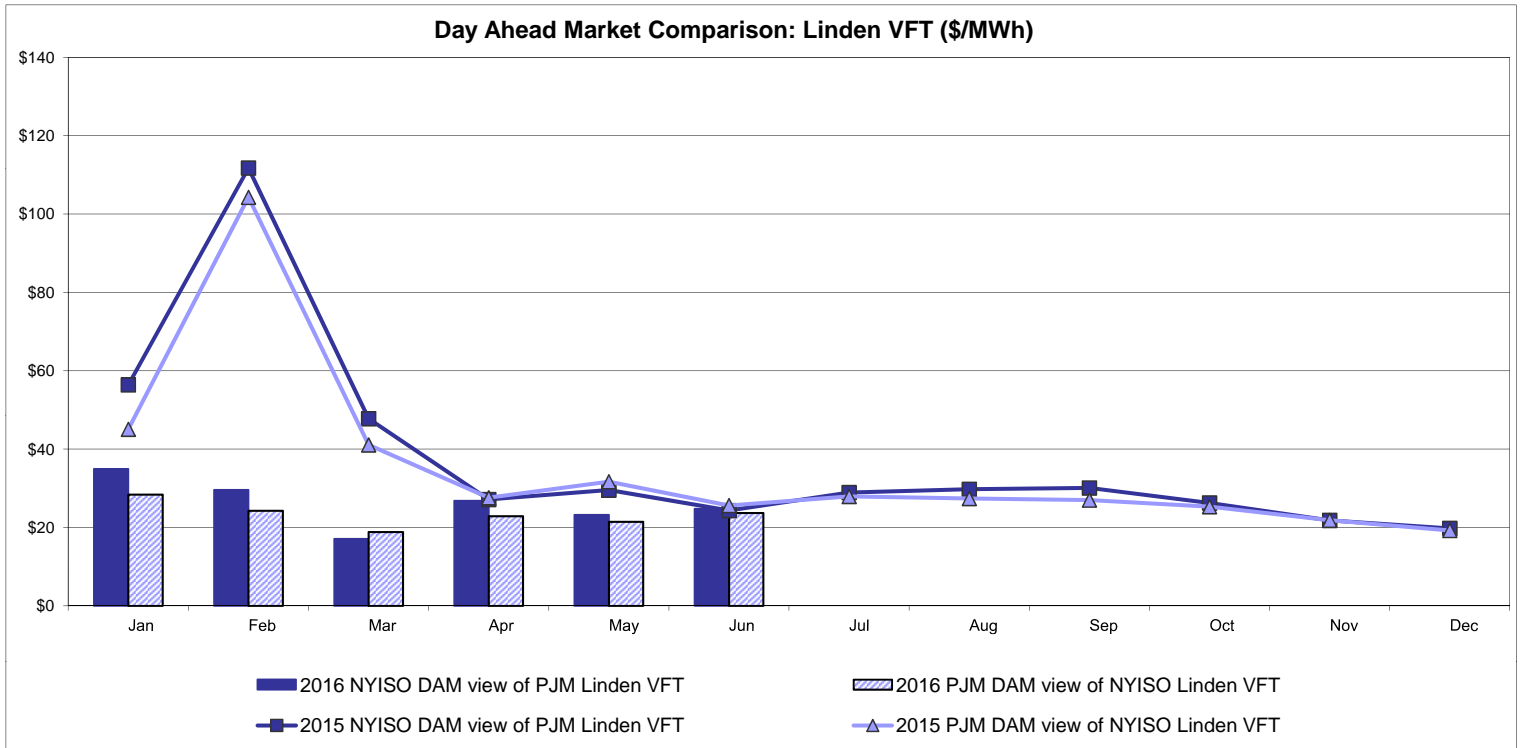


Real Time Market External Zone Comparison - HQ (\$/MWh)

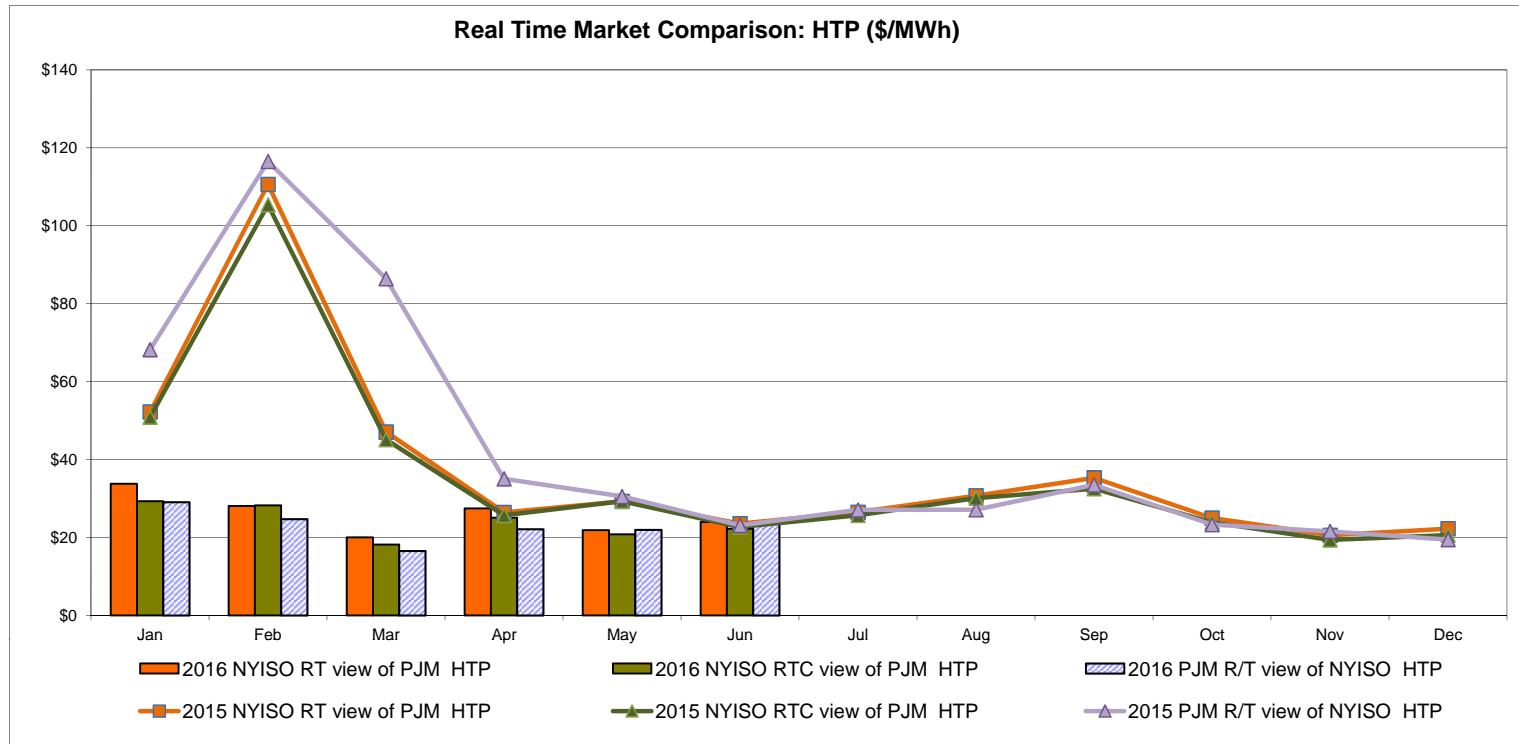
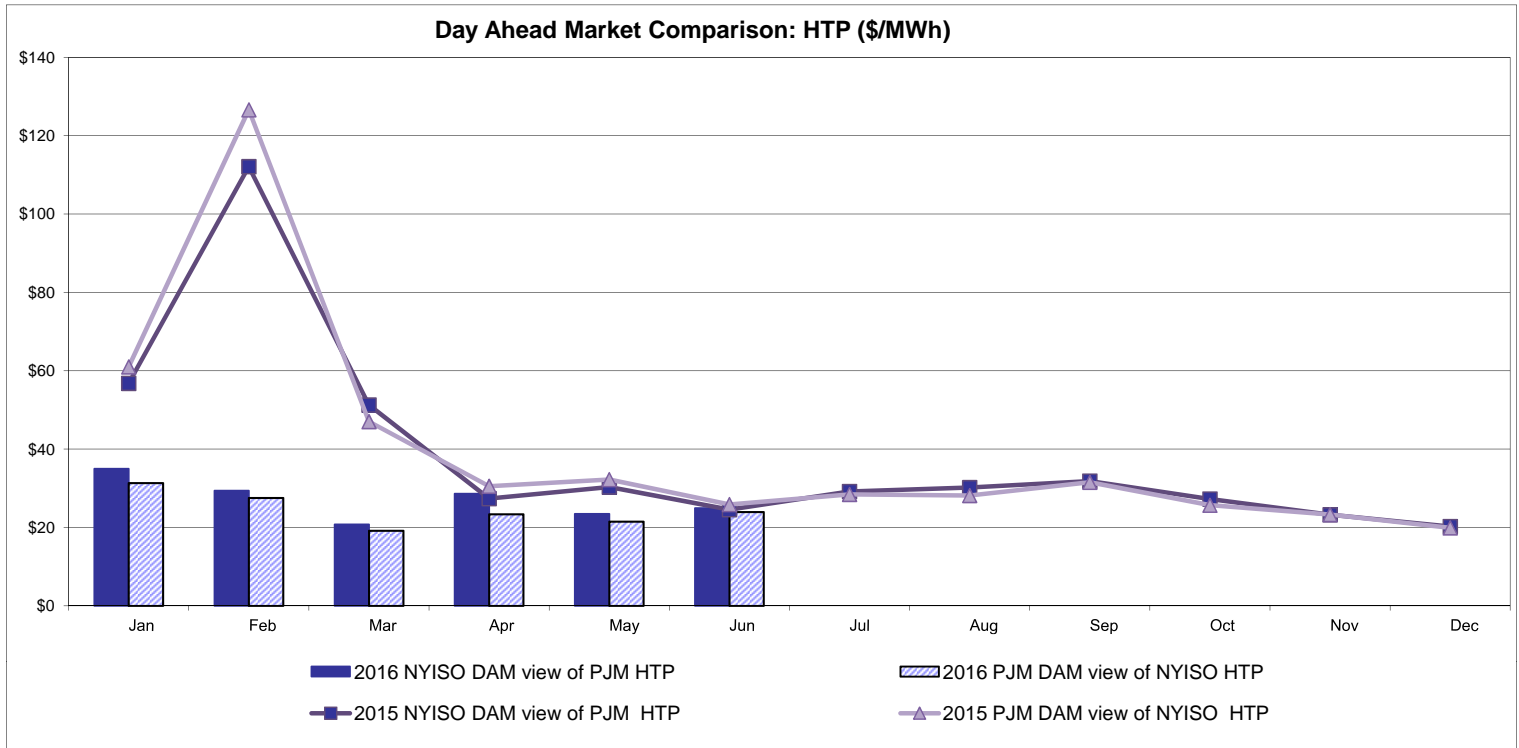


Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

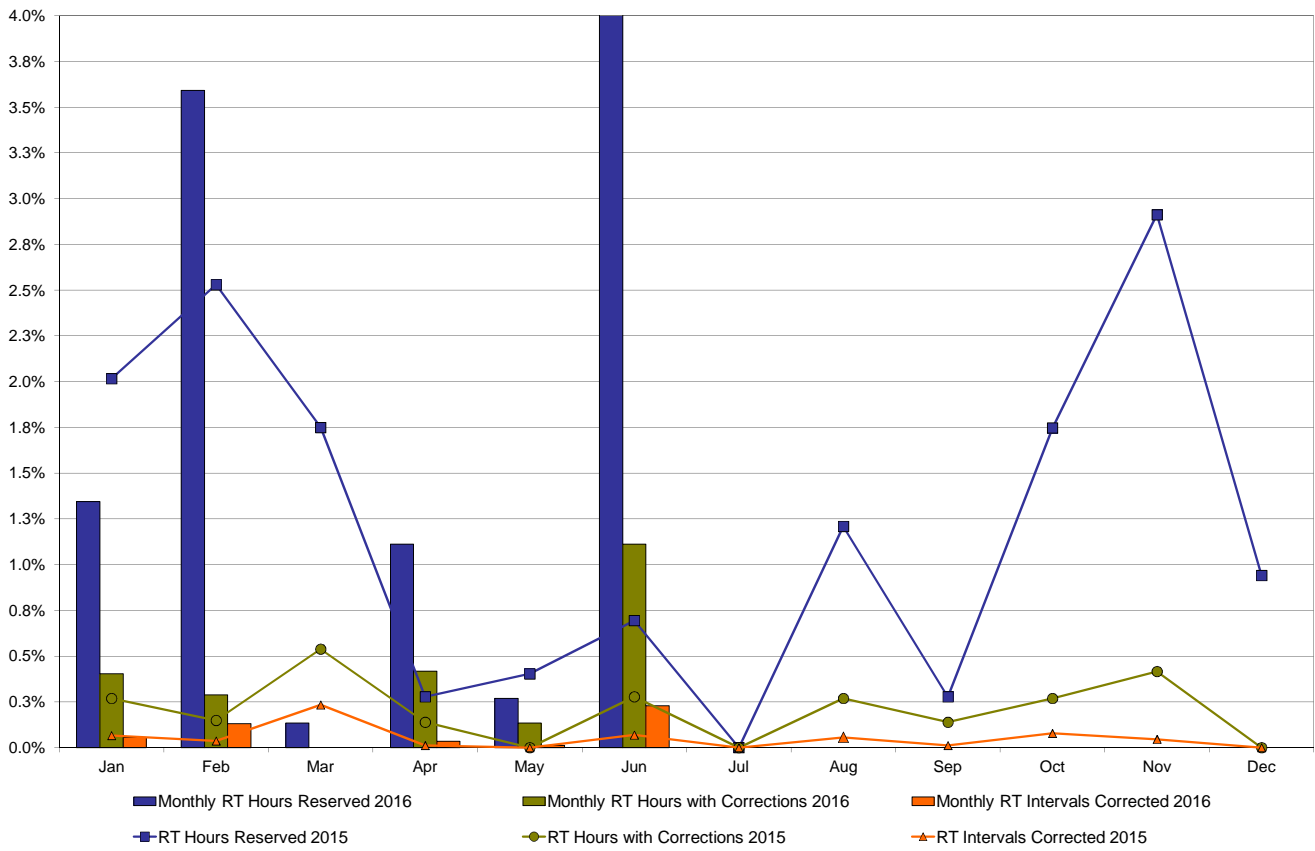


NYISO Real Time Price Correction Statistics

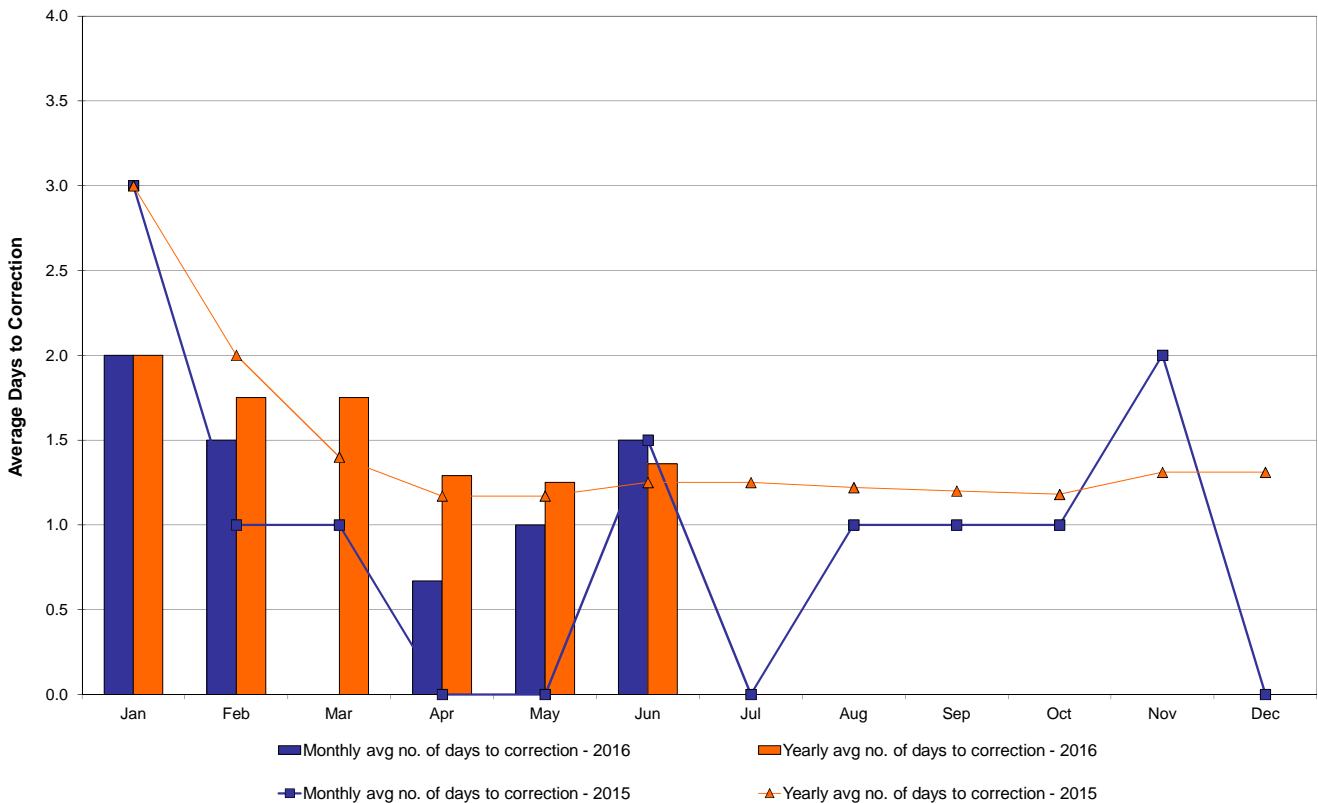
2016		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	3	2	0	3	1	8						
Number of hours	in the month	744	696	743	720	744	720						
% of hours with corrections	in the month	0.40%	0.29%	0.00%	0.42%	0.13%	1.11%						
% of hours with corrections	year-to-date	0.40%	0.35%	0.23%	0.28%	0.25%	0.39%						
Interval Corrections													
Number of intervals corrected	in the month	5	11	0	3	1	20						
Number of intervals	in the month	9,000	8,440	8,995	8,724	8,987	8,725						
% of intervals corrected	in the month	0.06%	0.13%	0.00%	0.03%	0.01%	0.23%						
% of intervals corrected	year-to-date	0.06%	0.09%	0.06%	0.05%	0.05%	0.08%						
Hours Reserved													
Number of hours reserved	in the month	10	25	1	8	2	32						
Number of hours	in the month	744	696	743	720	744	720						
% of hours reserved	in the month	1.34%	3.59%	0.13%	1.11%	0.27%	4.44%						
% of hours reserved	year-to-date	1.34%	2.43%	1.65%	1.52%	1.26%	1.79%						
Days to Correction *													
Avg. number of days to correction	in the month	2.00	1.50	0.00	0.67	1.00	1.50						
Avg. number of days to correction	year-to-date	2.00	1.75	1.75	1.29	1.25	1.36						
Days Without Corrections													
Days without corrections	in the month	29	27	31	27	30	24						
Days without corrections	year-to-date	29	56	87	114	144	168						
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

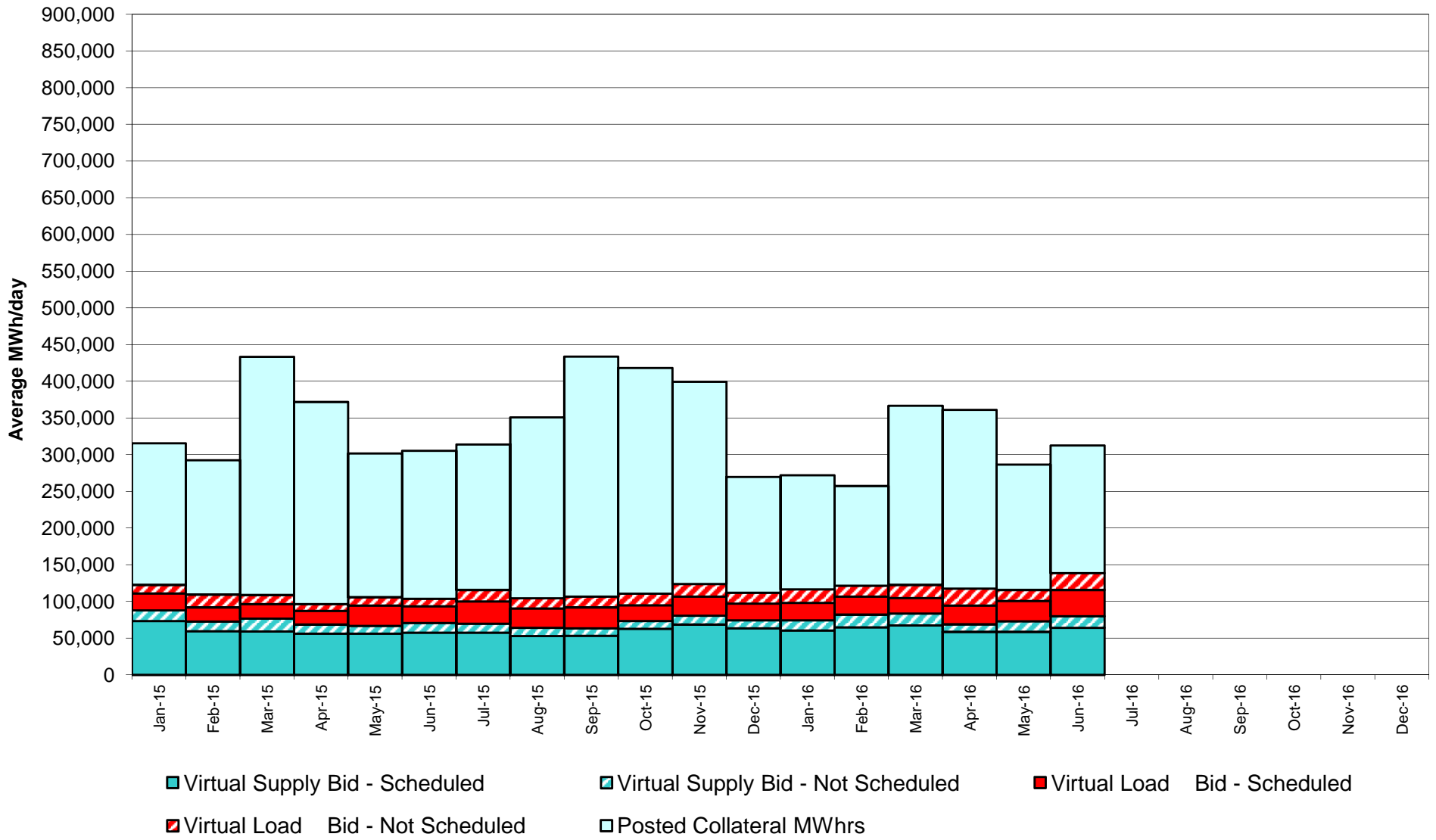


Annual average time period for making Price Corrections (from reservation date) *

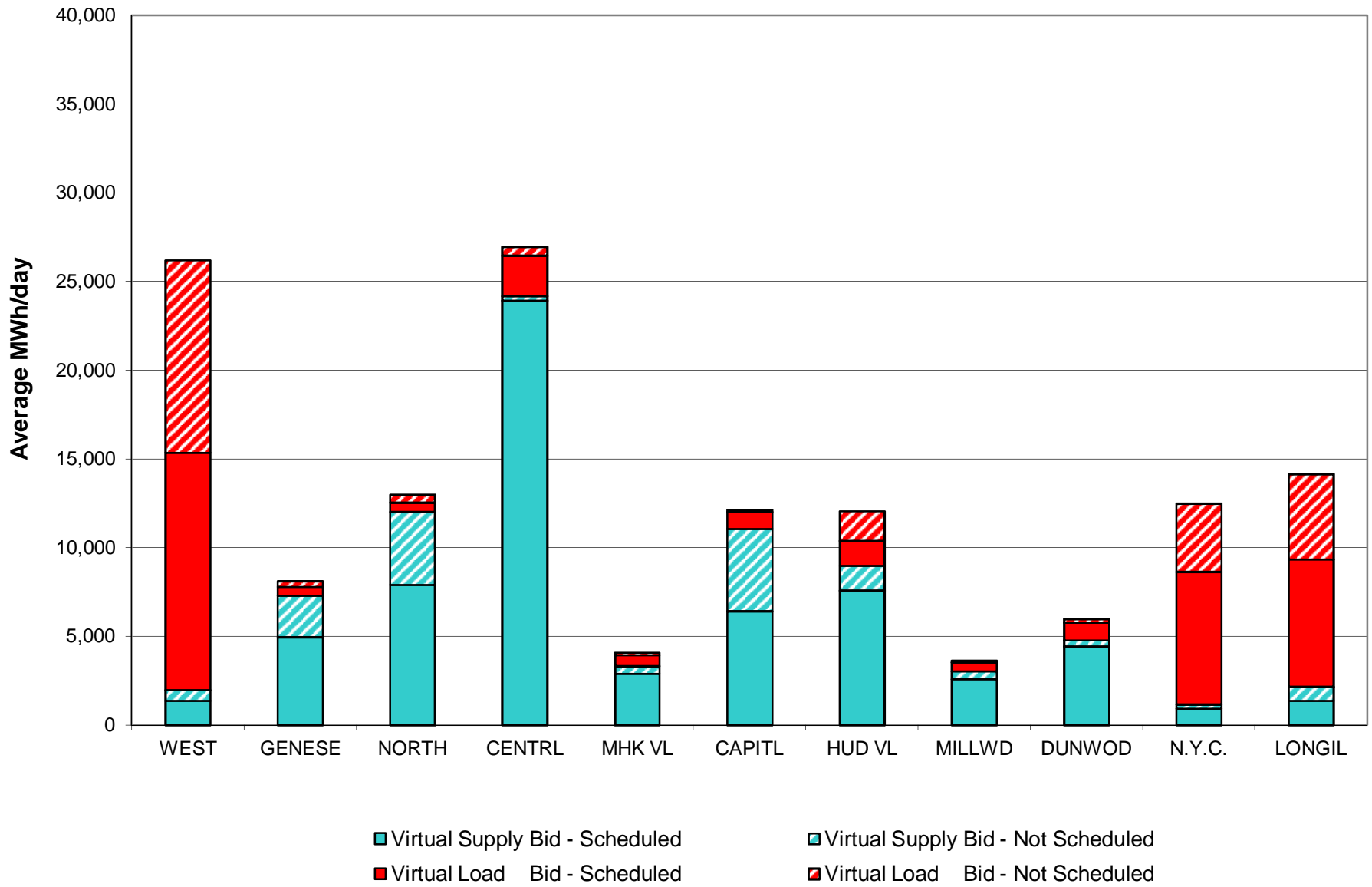


* Calendar days from reservation date.

NYISO Virtual Trading Average MWh per day



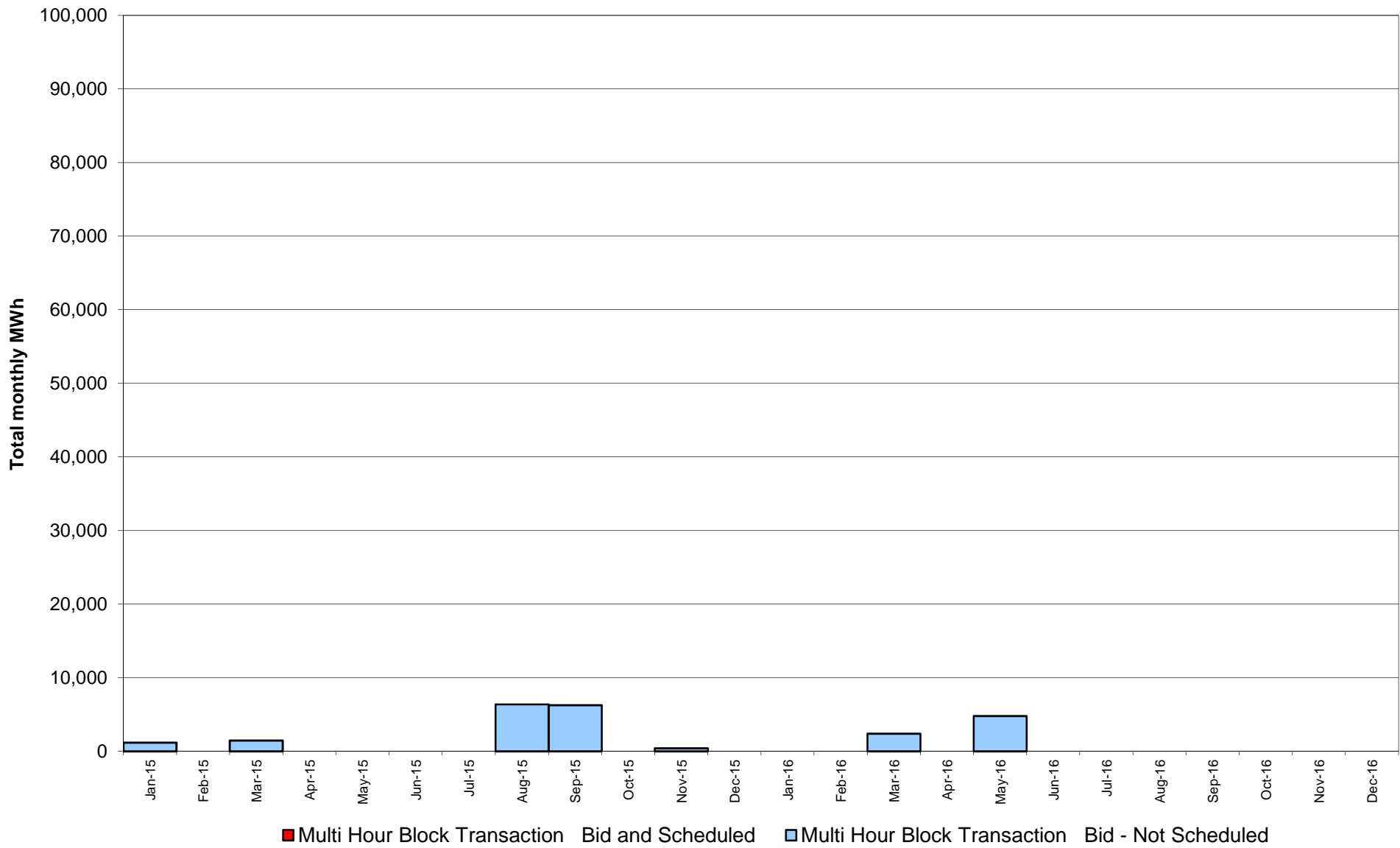
Virtual Load and Supply Zonal Statistics through June 30, 2016



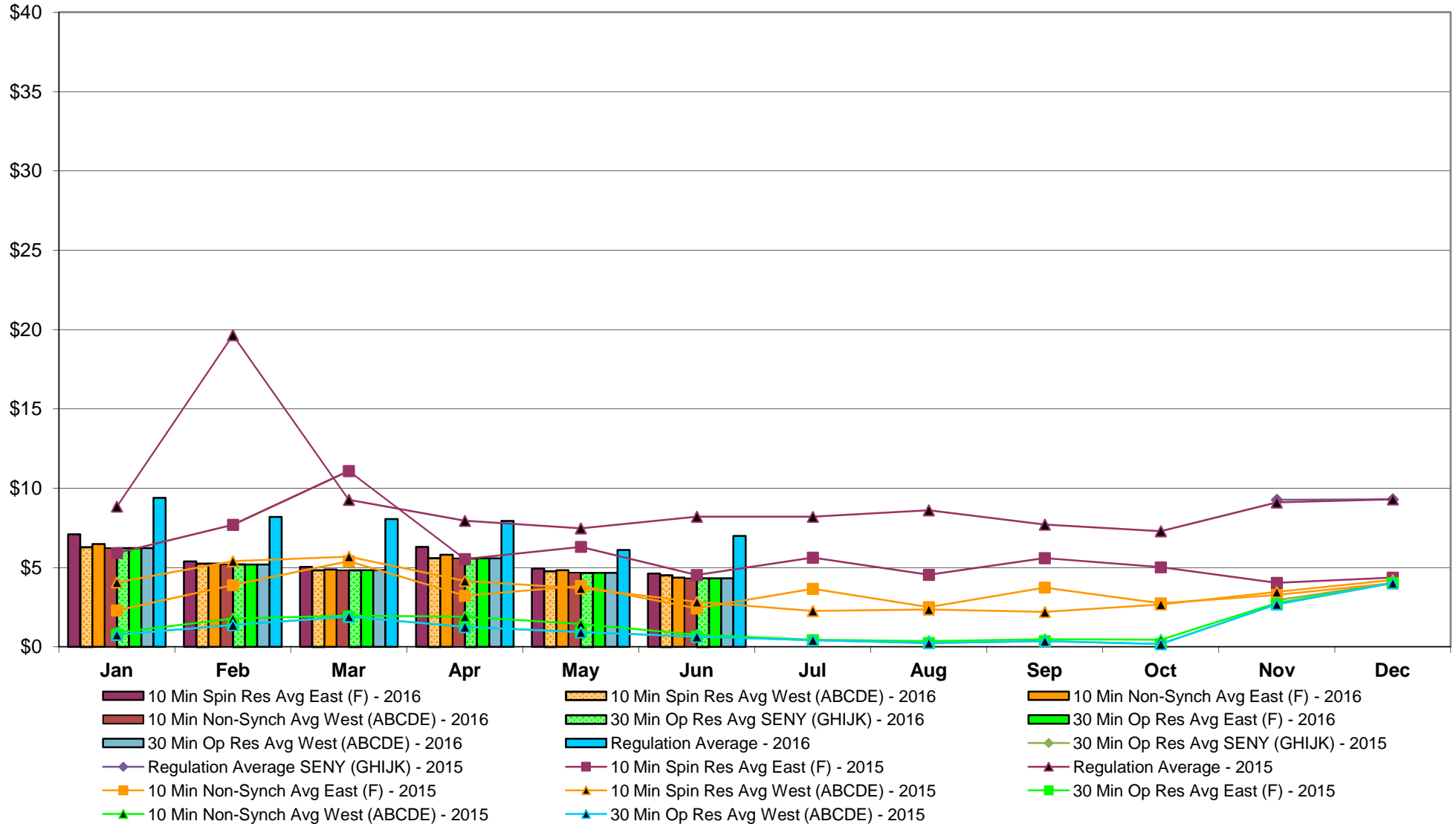
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2016

		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	13,365	10,864	1,364	609		Jun-16	605	139	2,887	447		Jun-16	996	208	4,433	347
	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
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		501	323	4,945	2,340	Jun-16	959		119	6,428	4,625	Jun-16	7,465	3,847		930	245
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
	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	519	445	7,892	4,126	Jun-16		1,392	1,684	7,583	1,398	Jun-16	7,178		4,811	1,377	786
	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
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		2,285	469	23,910	277	Jun-16	489		121	2,582	449	Jun-16	35,754	23,031		64,331	15,648
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					

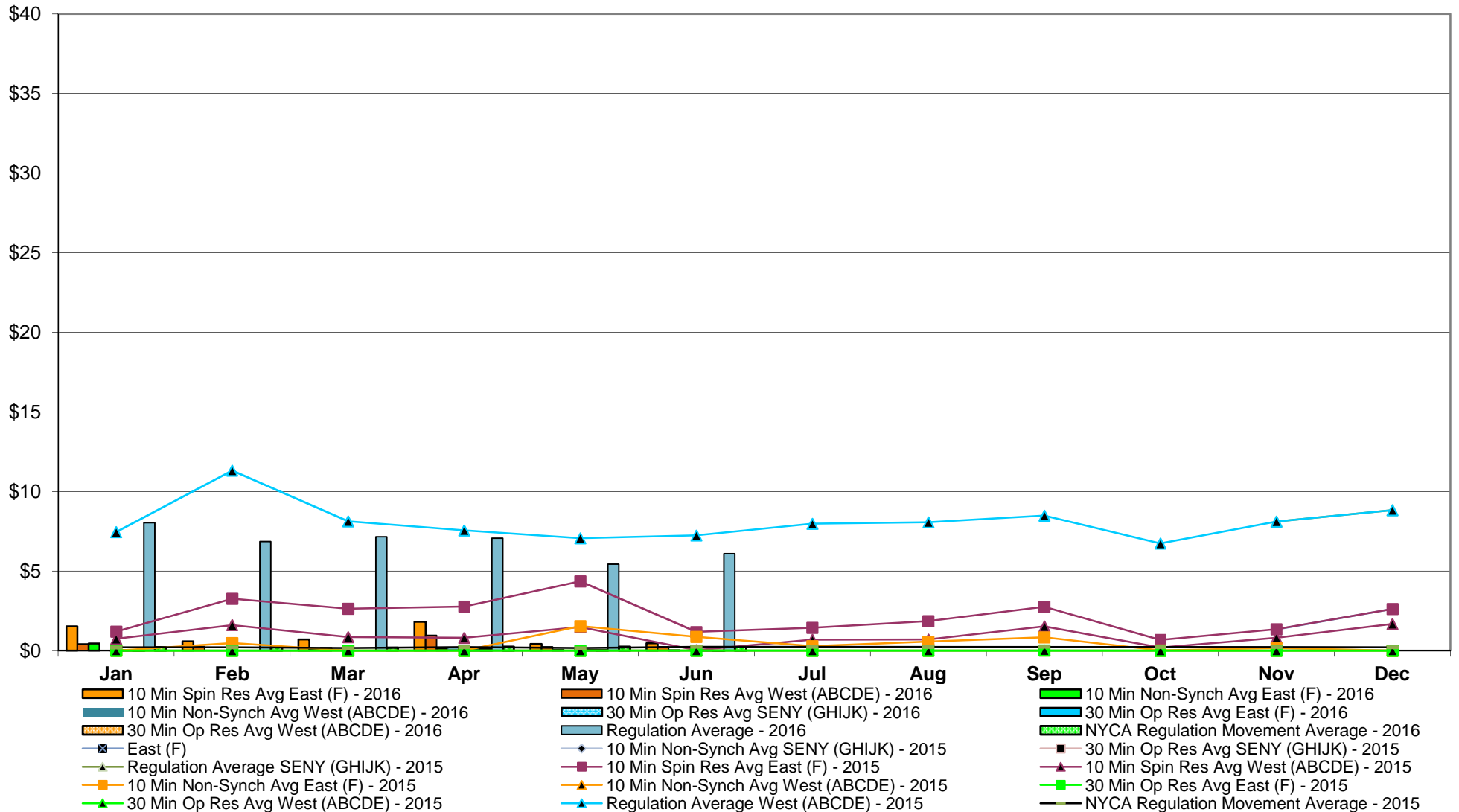
NYISO Multi Hour Block Transactions Monthly Total MWh



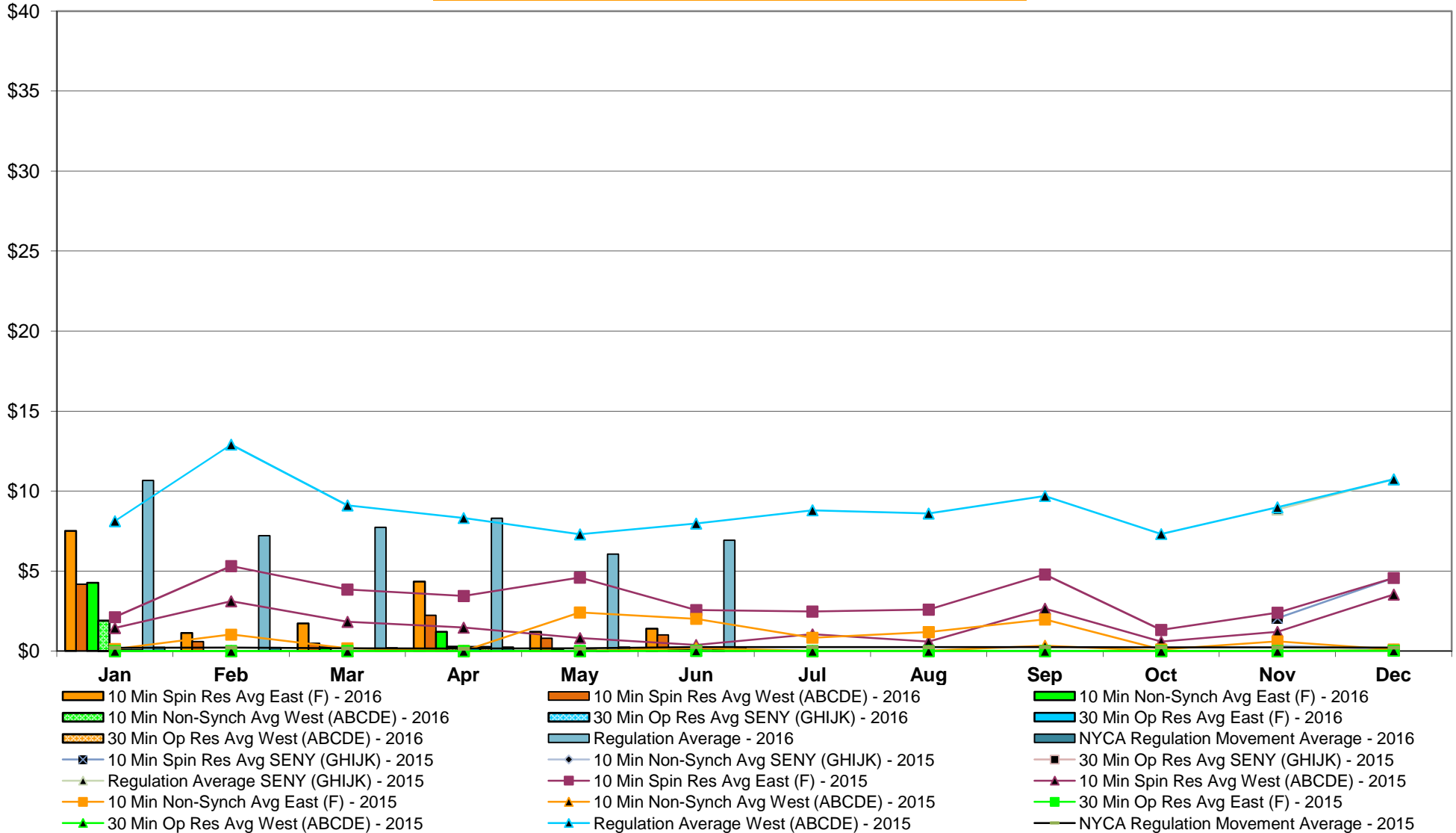
NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2015 - 2016



NYISO Monthly Average Ancillary Service Prices RTC Market 2015 - 2016



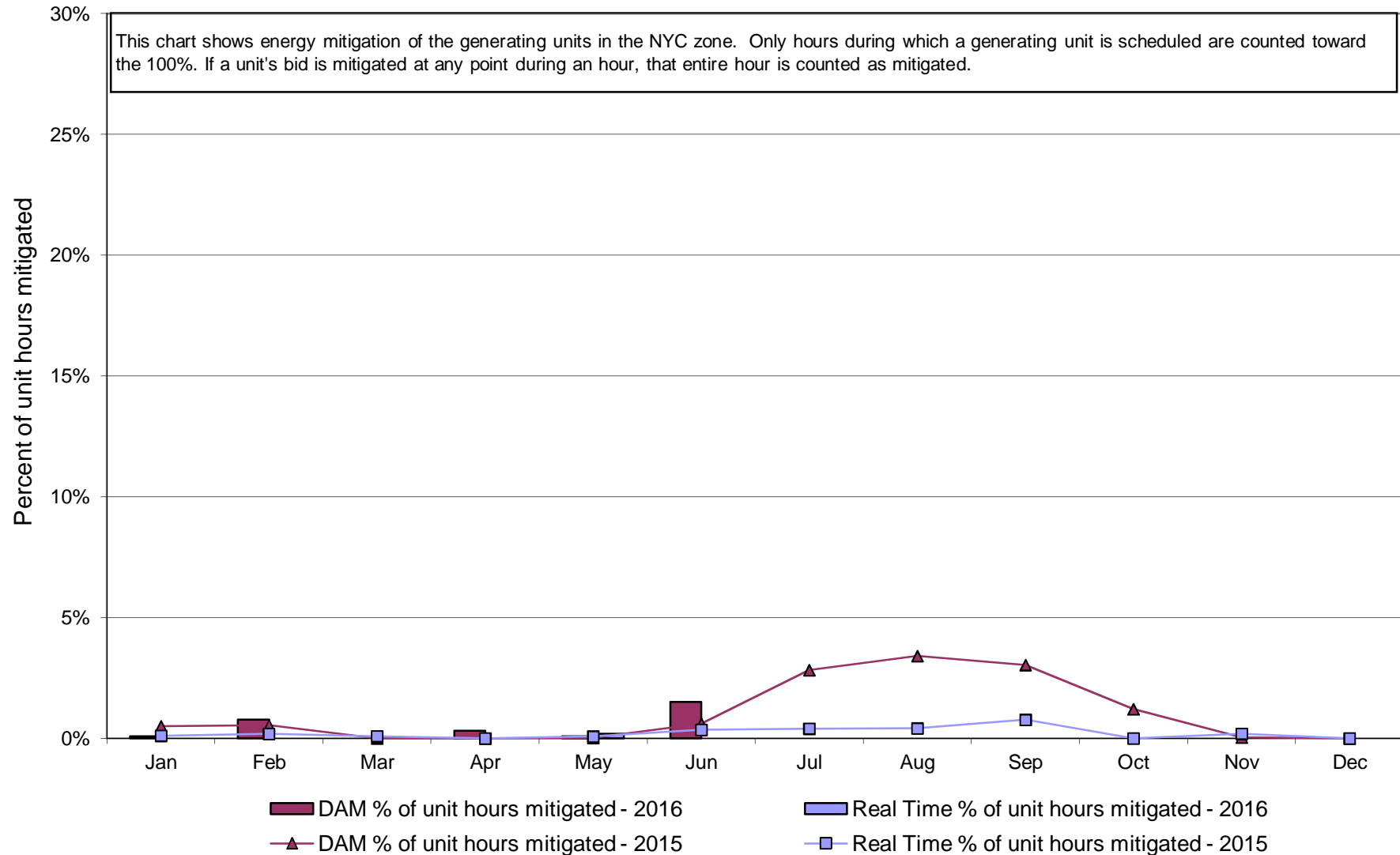
NYISO Monthly Average Ancillary Service Prices Real Time Market 2015 - 2016



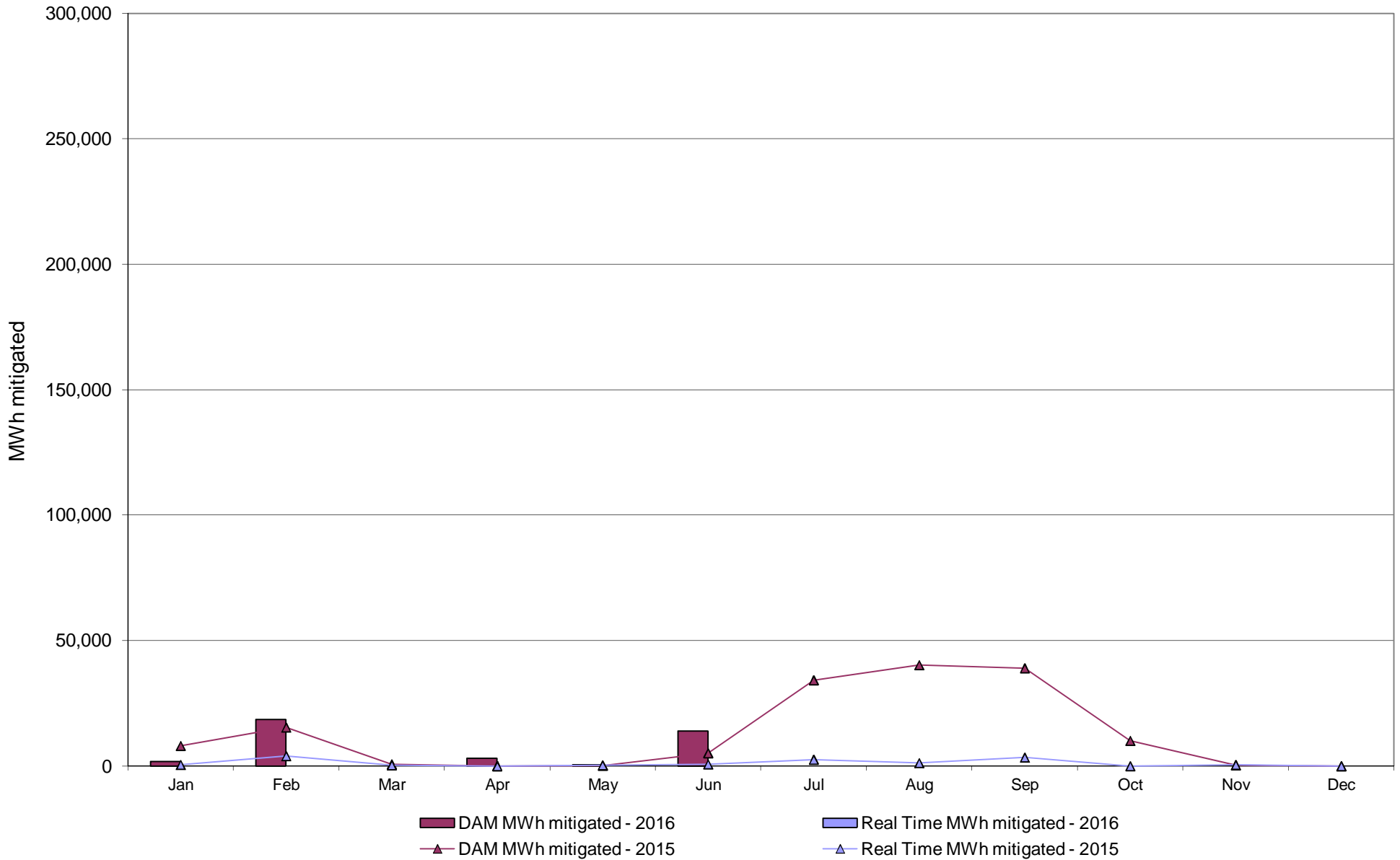
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

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 (F)	7.09	5.38	5.04	6.31	4.93	4.62						
10 Min Spin West (ABCDE)	6.28	5.25	4.84	5.60	4.77	4.52						
10 Min Non Synch East (F)	6.47	5.25	4.88	5.80	4.83	4.36						
10 Min Non Synch West (ABCDE)	6.23	5.20	4.84	5.58	4.68	4.32						
30 Min SENY (GHIJK)	6.23	5.20	4.84	5.58	4.67	4.32						
30 Min East (F)	6.23	5.20	4.84	5.58	4.67	4.32						
30 Min West (ABCDE)	6.23	5.20	4.84	5.58	4.67	4.32						
Regulation	9.39	8.19	8.05	7.93	6.11	7.00						
RTC Market												
10 Min Spin East (F)	1.53	0.59	0.71	1.81	0.43	0.46						
10 Min Spin West (ABCDE)	0.42	0.26	0.08	0.95	0.23	0.24						
10 Min Non Synch East (F)	0.45	0.00	0.17	0.14	0.05	0.02						
10 Min Non Synch West (ABCDE)	0.04	0.00	0.00	0.14	0.04	0.02						
30 Min SENY (GHIJK)	0.01	0.00	0.00	0.14	0.04	0.04						
30 Min East (F)	0.01	0.00	0.00	0.14	0.04	0.02						
30 Min West (ABCDE)	0.01	0.00	0.00	0.14	0.04	0.02						
Regulation	8.04	6.86	7.15	7.07	5.43	6.09						
NYCA Regulation Movement	0.23	0.21	0.20	0.25	0.25	0.23						
Real Time Market												
10 Min Spin East (F)	7.51	1.12	1.73	4.34	1.19	1.40						
10 Min Spin West (ABCDE)	4.17	0.58	0.48	2.23	0.79	1.00						
10 Min Non Synch East (F)	4.26	0.00	0.22	1.20	0.06	0.11						
10 Min Non Synch West (ABCDE)	1.89	0.00	0.00	0.26	0.03	0.04						
30 Min SENY (GHIJK)	0.06	0.00	0.00	0.25	0.03	0.07						
30 Min East (F)	0.06	0.00	0.00	0.25	0.03	0.04						
30 Min West (ABCDE)	0.06	0.00	0.00	0.25	0.03	0.04						
Regulation	10.66	7.21	7.73	8.30	6.06	6.92						
NYCA Regulation Movement	0.23	0.22	0.20	0.25	0.25	0.23						
2015												
Day Ahead Market												
10 Min Spin East (F)	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 (ABCDE)	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 (F)	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 (ABCDE)	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 (GHIJK)	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 (F)	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 (ABCDE)	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 (F)	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 (ABCDE)	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 (F)	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 (ABCDE)	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 (GHIJK)	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 (F)	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 (ABCDE)	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 (F)	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 (ABCDE)	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 (F)	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 (ABCDE)	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 (GHIJK)	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 (F)	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 (ABCDE)	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

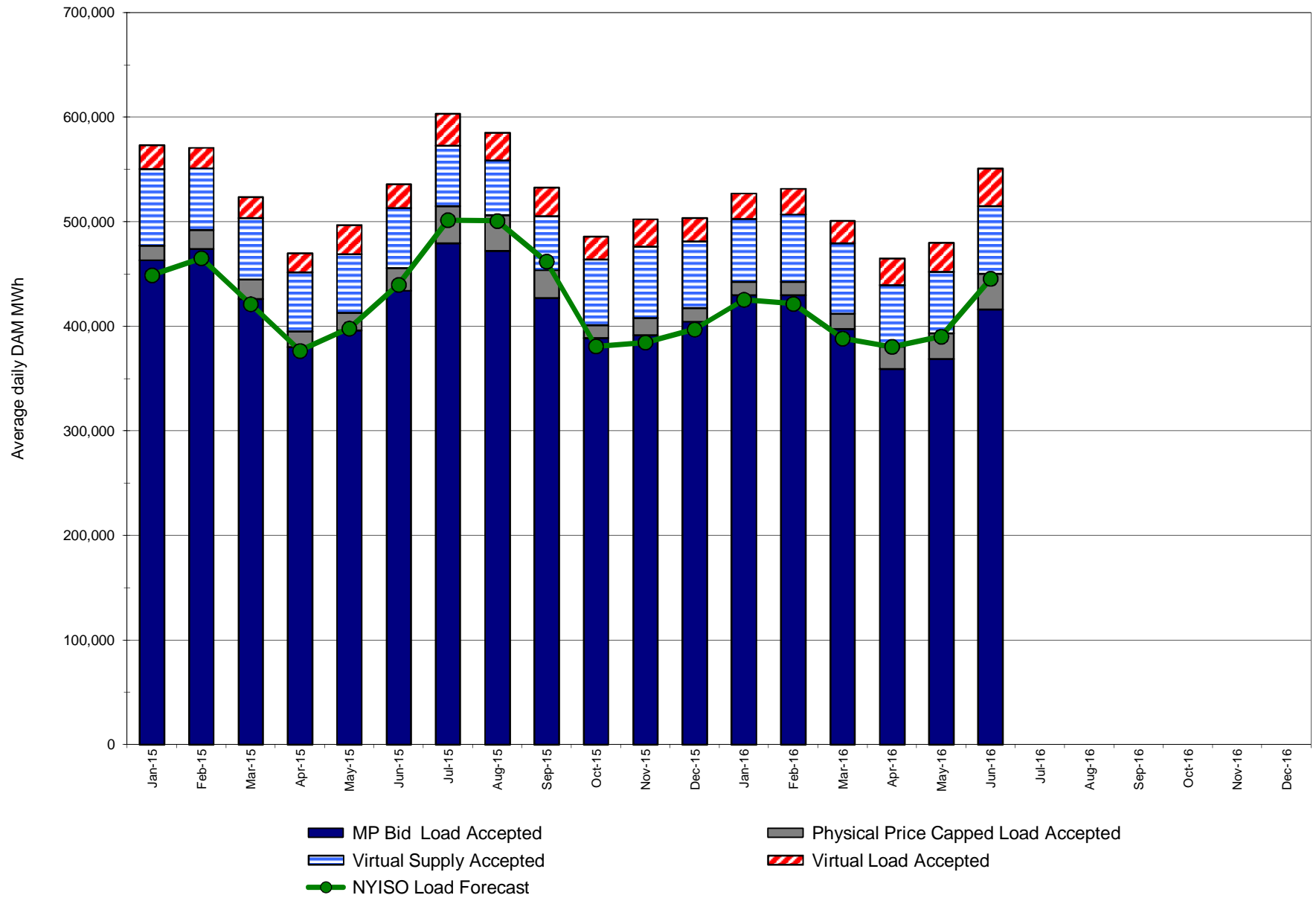
NYISO In City Energy Mitigation - AMP (NYC Zone) 2015 - 2016 Percentage of committed unit-hours mitigated



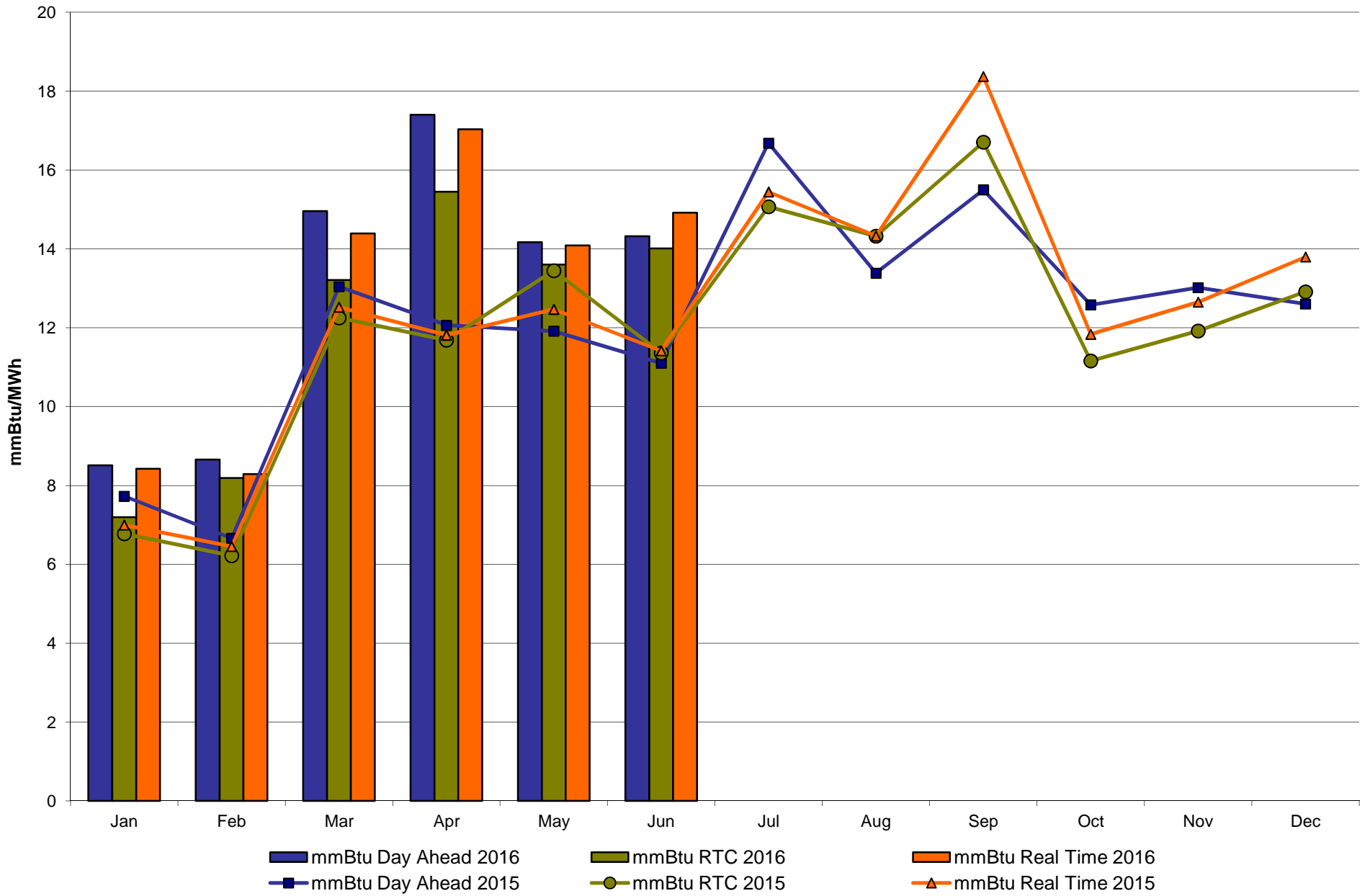
NYISO In City Energy Mitigation (NYC Zone) 2015 - 2016
Monthly megawatt hours mitigated



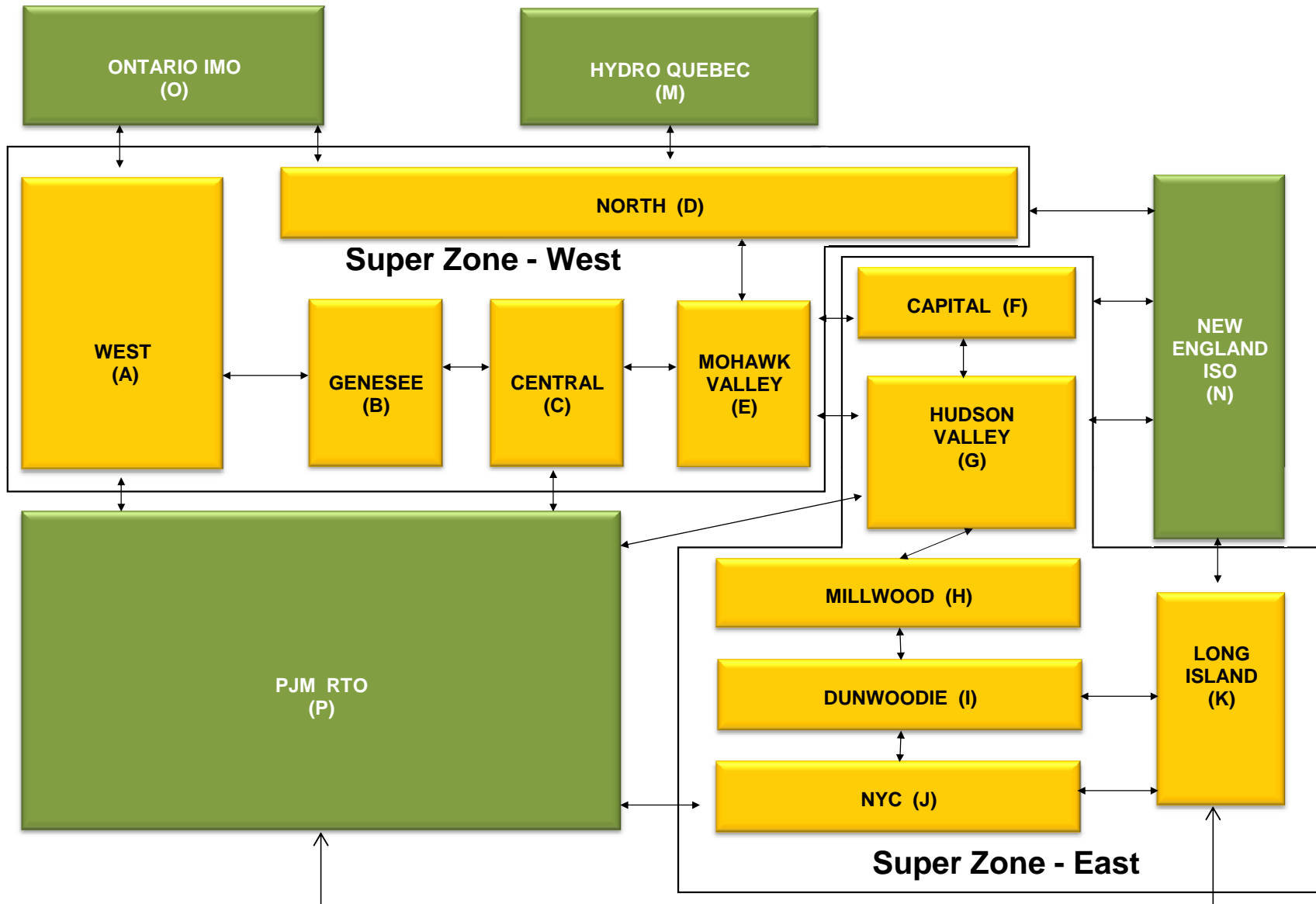
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2015-2016



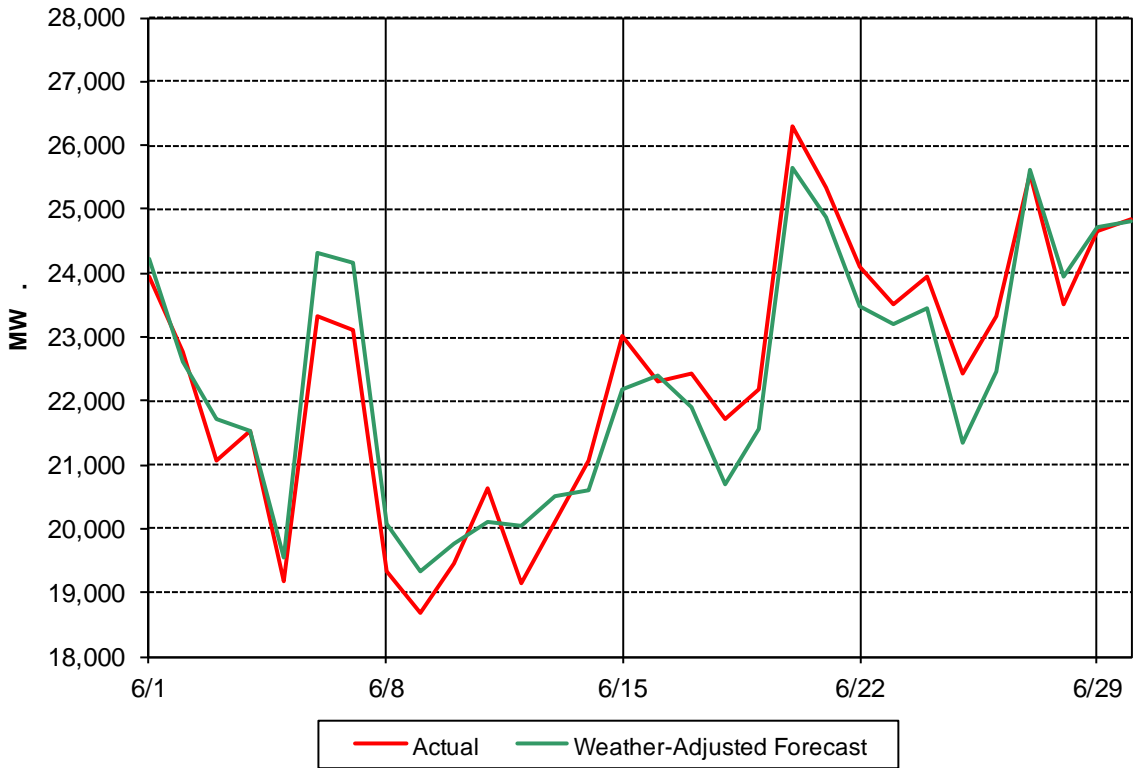
NYISO LBMP ZONES



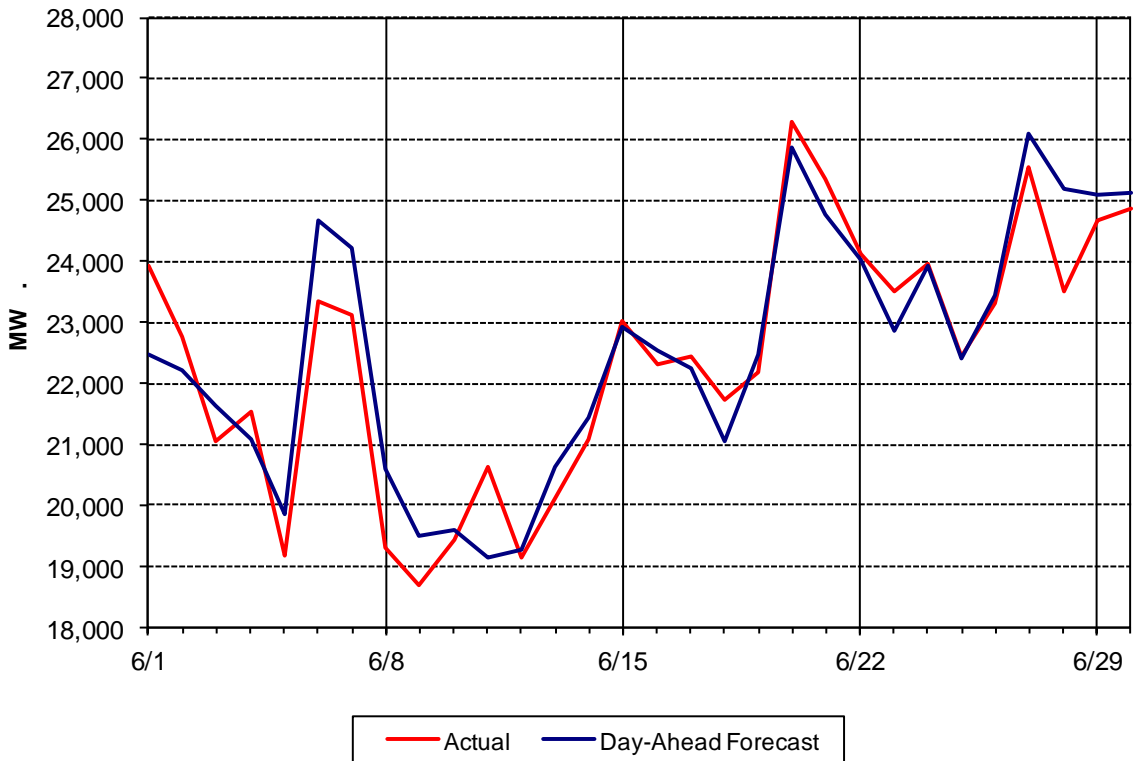
Billing Codes for Chart C

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

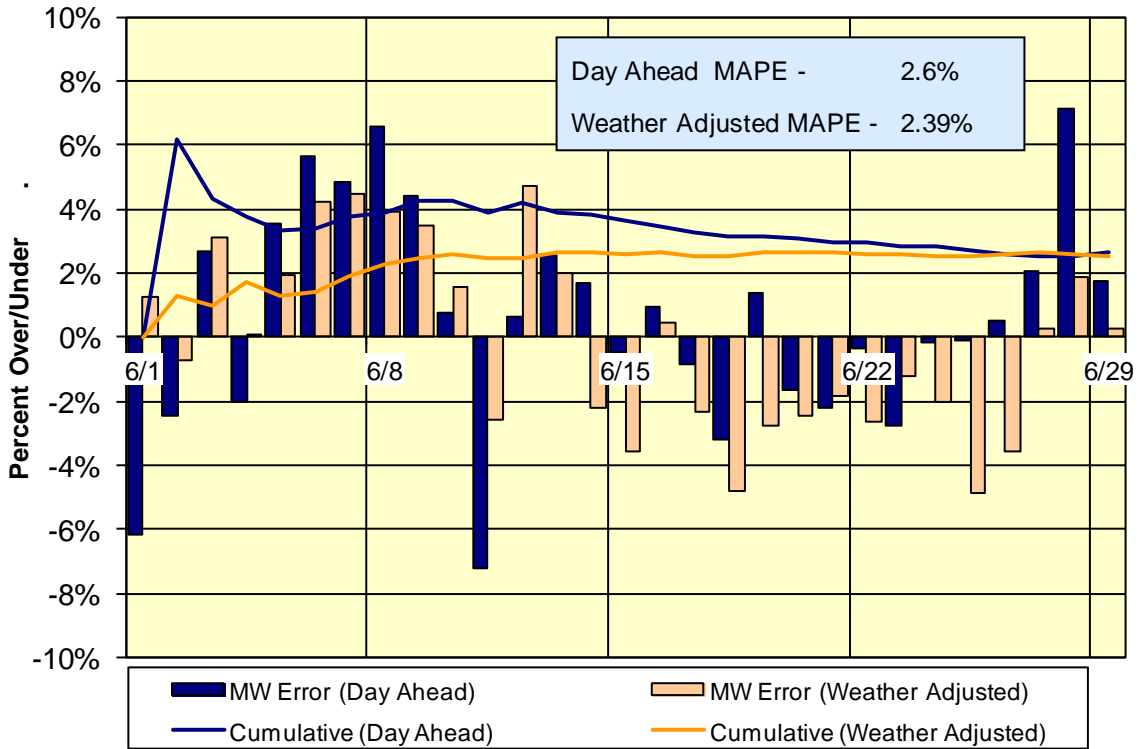
**NYISO Daily Peak Load - June 2016
Actual vs. Weather-Adjusted Forecast**



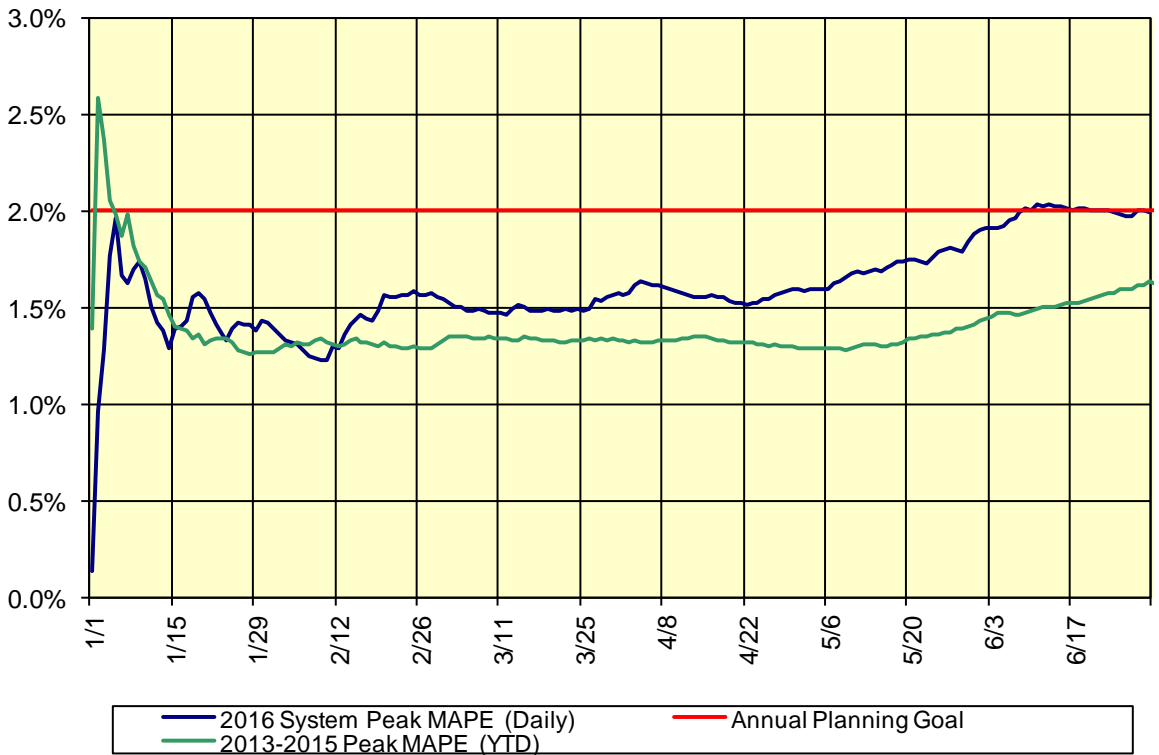
**NYISO Daily Peak Load - June 2016
Actual vs. Forecast**



Day Ahead Peak Forecast - June 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 – June 2016

Filing Date	Filing Summary	Docket	Order Date	Order Summary
08/14/2013 05/21/2014	NYISO compliance filing re: 8 compliance obligations of Order No. 745 concerning compensation for demand response providers participating in an ISO/RTO administered energy market (ER11-4338-002) NYISO compliance filing re: to permit the participation of demand response facilitated by behind-the-meter generation in the NYISO's DADRP (ER14-2006-000)	ER11-4338-002 ER14-2006-000	06/03/2016	FERC order accepted limited tariff provisions to comply with Order No. 745 and compliance revisions filed to allow certain DADRP participation, effective 08/02/2016
03/29/2016	NYISO compliance filing re: to identify and state where certain scarcity pricing tariff provisions apply to shortage events versus scarcity events	ER16-425-001	06/10/2016	FERC letter order accepted revisions effective on or before 06/30/2016, subject to a compliance filing with no less than two weeks' notice of the proposed effective date
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	06/06/2016	FERC letter order accepted the revisions effective 07/05/2016, as requested
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	06/28/2016	FERC letter order accepted the notice of cancellation effective 07/26/2016, as requested
06/01/2016	NYISO filing re: semi-annual compliance reports on the NYISO's new generation projects and Demand Response programs in the NYCA	ER03-647-000 ER01-3001-000		
06/01/2016	NYISO filing to the NYPSC re: report of the Western New York Public Policy Transmission Need Viability and Sufficiency Assessment	PSC Case No. 14-E-0454		
06/07/2016	NYISO compliance filing re: remove language from the OATT that was rejected by FERC in a 04/21/2016 order concerning NYISO's RMR compliance filing	ER16-120-002		
06/07/2016	NYISO filing re: two week notice of a 06/21/2016 effective date for certain comprehensive scarcity pricing tariff revisions	ER16-425-002		
06/13/2016	NYISO filing re: answer to third party comments concerning the NYISO's 04/13/2016 buyer side mitigation compliance filing	ER16-1404-000		

06/15/2016	IRC comments re: Notice of Proposed Amendment to the Final Order in Response to a Petition from Certain ISOs and RTOs to Exempt Specified Transactions Authorized by a Tariff or Protocol Approved by the FERC or TXPUC From Certain Provisions of the Commodity Exchange Act Pursuant to the Authority Provided in the Act	CFTC 6351-01-P		
06/15/2016	NYISO confidential filing to the NYPSC re: NYISO's three-month Reliability Commitment Data Report for the period ending 05/31/2016	PSC Matter No. 10-02007		
06/16/2016	NYISO compliance filing re: two week advance notice setting an effective date of 06/30/2016 for the supplemental scarcity pricing tariff revisions accepted by the Commission's 06/10/2016 order	ER16-425-003		
06/17/2016	NYISO filing, on behalf of Niagara Mohawk Power Corporation (NMPC), re: SA 2283 Commercial Agreement between NMPC and New York State Electric & Gas Corp.	ER16-1957-000		
06/17/2016	NYISO confidential filing re: response to 01/19/2016 NYDPS Staff request for Confidential NYISO Data – Western NY Public Policy Requirements Projects and serves as a follow-up to the NYISO's initial submission on 02/26/2016	PSC Case No. 00-E-1380		
06/20/2016	NYISO confidential informational filing re: copy of the Con Edison plan, titled "Start-Up Procedure for Rapid Energization of the Con Edison Electrical System after Complete System Blackout"	ER12-2568-000		
06/20/2016	NYISO filing re: proposed tariff revisions concerning NYISO's cost allocation methodology for its reliability planning process	ER16-1968-000		
06/21/2016	NYISO filing re: notice of a delay in the effective date for implementation of comprehensive scarcity pricing tariff provisions	ER16-425-004		
06/22/2016	NYISO filing re: notice setting an effective date for implementation of certain comprehensive scarcity pricing tariff provisions	ER16-425-005		
06/27/2016	NYISO filing re: answer to third party comments concerning proposed tariff revisions to the demand curve reset process	ER16-1751-000		
06/30/2016	NYISO filing re: technical conference comments concerning generator interconnection agreements and procedures	RM16-12-000 RM15-21-000		
06/30/2016	NYISO filing of an answer to the Boundless Energy, <i>et. al.</i> v. NYISO complaint re: an alleged tariff violation concerning a solicitation for projects to address the AC Transmission Public Policy Transmission Needs	EL16-84-000		