

NYISO CEO/COO Report

Bradley Jones

President & Chief Executive Officer

Rick Gonzales

Senior Vice President & Chief Operating Officer

Management Committee Meeting:

April 26, 2017, Rensselaer, NY

NYISO CEO/COO Report

CEO Report

COO Report

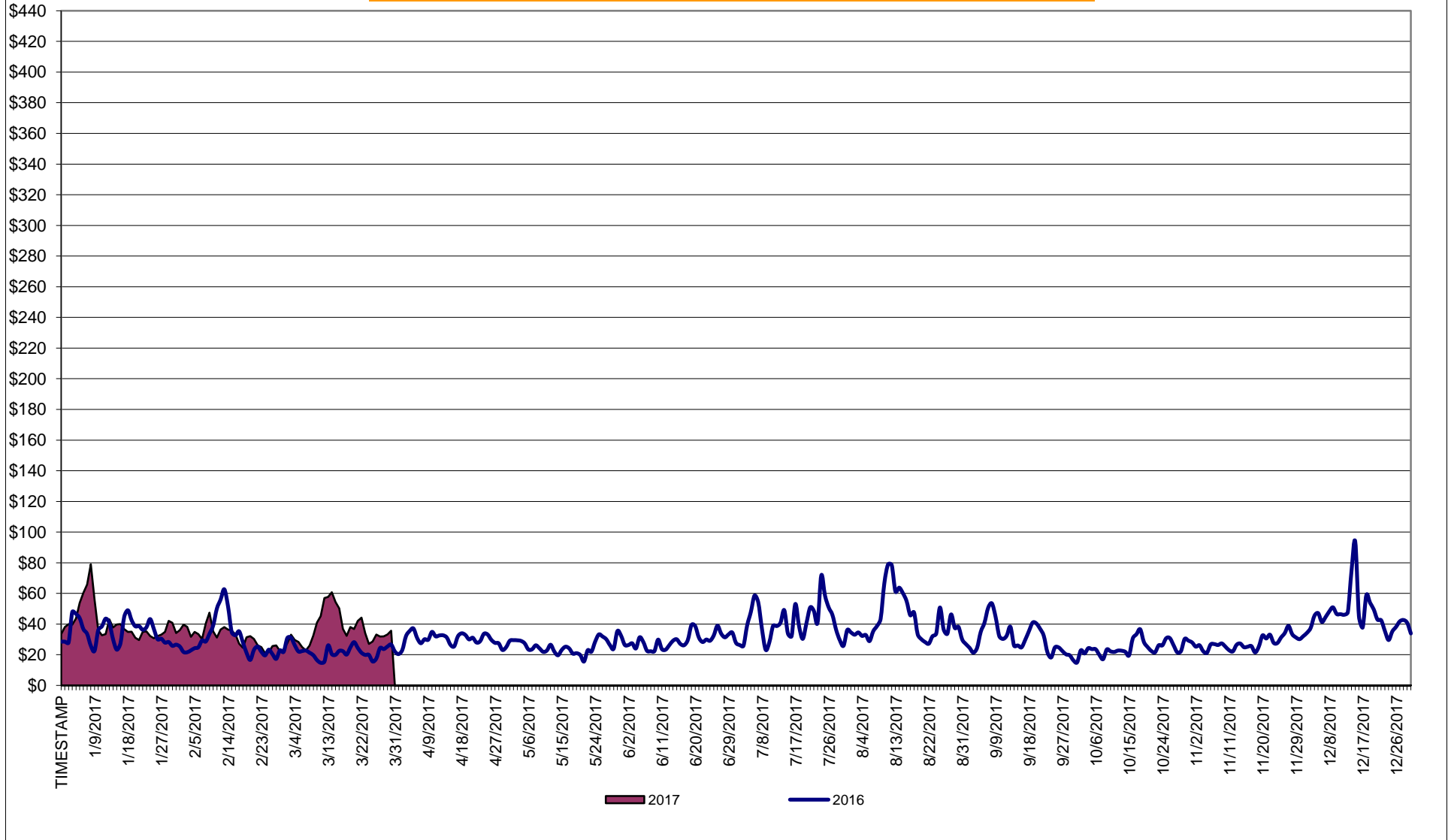
- Market Performance Highlights – For Information Only
- Operations Performance Metrics Monthly Report

Market Performance Highlights

March 2017

- LBMP for March is \$34.97/MWh; higher than \$30.95/MWh in February 2017 and \$20.66/MWh in March 2016.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to February.
- March 2017 average year-to-date monthly cost of \$37.81/MWh is a 23% increase from \$30.68/MWh in March 2016.
- Average daily sendout is 419 GWh/day in March; higher than 418 GWh/day in February 2017 and 397 GWh/day in March 2016.
- Natural gas prices were higher and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$3.49/MMBtu, up from \$2.83/MMBtu in February.
 - Monthly average was driven up by five days of cold weather in March
 - Natural gas prices are up 169.4% year-over-year.
 - Jet Kerosene Gulf Coast was \$10.69/MMBtu, down from \$11.48/MMBtu in February.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$10.90/MMBtu, down from \$11.63/MMBtu in February.
 - Distillate prices are up 31% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.46)/MWh; higher than (\$0.54)/MWh in February.
 - Local Reliability Share is \$0.21/MWh, higher than \$0.13/MWh in February.
 - Statewide Share is (\$0.67)/MWh, unchanged from (\$0.67)/MWh in February.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than February.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
2016 Annual Average \$34.28/MWh
March 2016 YTD Average \$30.68/MWh
March 2017 YTD Average \$37.81/MWh



* Excludes ICAP payments.

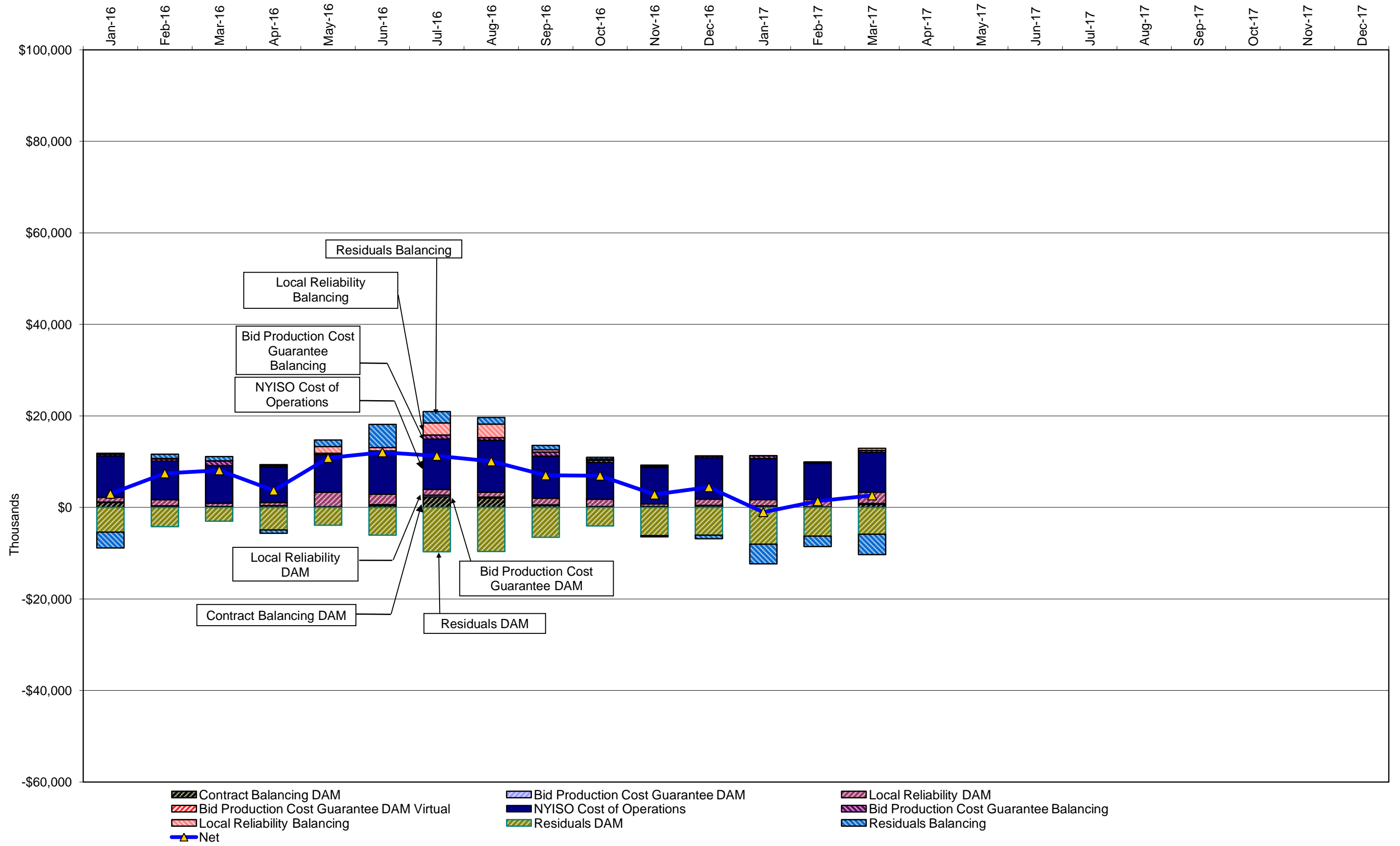
NYISO Average Cost/MWh (Energy and Ancillary Services) *
from the LBMP Customer point of view

2017	<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	40.07	30.95	34.97									
NTAC	0.66	1.11	0.86									
Reserve	0.70	0.67	0.74									
Regulation	0.14	0.12	0.13									
NYISO Cost of Operations	0.65	0.65	0.65									
FERC Fee Recovery	0.09	0.10	0.10									
Uplift	(0.73)	(0.54)	(0.46)									
Uplift: Local Reliability Share	0.10	0.13	0.21									
Uplift: Statewide Share	(0.83)	(0.67)	(0.67)									
Voltage Support and Black Start	0.37	0.37	0.38									
Avg Monthly Cost	41.96	33.44	37.38									
Avg YTD Cost	41.96	38.02	37.81									
TSA \$ per NYC MWh	0.00	0.00	0.00									
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	40.01	42.99	30.89	22.33	26.31	43.90
NTAC	0.59	0.78	0.62	1.14	1.10	0.93	0.78	0.54	0.55	0.86	0.79	0.97
Reserve	0.77	0.73	0.73	0.87	0.71	0.59	0.67	0.68	0.69	0.77	0.68	0.63
Regulation	0.12	0.12	0.12	0.12	0.11	0.12	0.10	0.10	0.10	0.15	0.13	0.17
NYISO Cost of Operations	0.64	0.65	0.65	0.64	0.65	0.66	0.65	0.65	0.64	0.64	0.64	0.64
FERC Fee Recovery	0.09	0.10	0.11	0.10	0.09	0.09	0.07	0.06	0.08	0.10	0.10	0.08
Uplift	(0.43)	(0.07)	(0.03)	(0.34)	0.19	0.20	(0.26)	(0.63)	(0.15)	(0.09)	(0.42)	(0.33)
Uplift: Local Reliability Share	0.09	0.11	0.06	0.07	0.35	0.21	0.23	0.22	0.14	0.15	0.07	0.10
Uplift: Statewide Share	(0.52)	(0.18)	(0.09)	(0.41)	(0.16)	(0.01)	(0.49)	(0.86)	(0.29)	(0.24)	(0.49)	(0.43)
Voltage Support and Black Start	0.35	0.36	0.36	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35
Avg Monthly Cost	36.42	31.37	23.23	30.84	26.52	30.29	42.40	44.75	33.16	25.12	28.61	46.42
Avg YTD Cost	36.42	34.02	30.68	30.71	29.85	29.93	32.32	34.43	34.31	33.54	33.16	34.28
TSA \$ per NYC MWh	0.00	0.00	0.05	0.00	0.00	0.02	0.84	1.64	0.00	0.00	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

* Excludes ICAP payments.
Market Mitigation and Analysis
Prepared: 4/7/2017 10:28 AM

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 March 31, 2017



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

2017	<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 MWh	14,135,019	12,565,206	13,983,865									
DAM LSE Internal LBMP Energy Sales	57%	57%	55%									
DAM External TC LBMP Energy Sales	2%	2%	1%									
DAM Bilateral - Internal Bilaterals	32%	32%	34%									
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	5%									
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%									
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%									
Balancing Energy Market MWh	-256,448	-407,284	-509,053									
Balancing Energy LSE Internal LBMP Energy Sales	-157%	-132%	-148%									
Balancing Energy External TC LBMP Energy Sales	64%	39%	44%									
Balancing Energy Bilateral - Internal Bilaterals	15%	8%	12%									
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	4%	0%									
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	10%	7%	5%									
Balancing Energy Bilateral - Wheel Through Bilaterals	-32%	-26%	-13%									
Transactions Summary												
LBMP	58%	57%	55%									
Internal Bilaterals	33%	34%	36%									
Import Bilaterals	5%	5%	5%									
Export Bilaterals	2%	2%	2%									
Wheels Through	2%	2%	2%									
Market Share of Total Load												
Day Ahead Market	101.8%	103.3%	103.8%									
Balancing Energy +	-1.8%	-3.3%	-3.8%									
Total MWh	13,878,571	12,157,922	13,474,812									
Average Daily Energy Sendout/Month GWh	431	418	419									

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 MWh	14,760,915	13,614,754	13,413,781	12,496,141	12,959,886	14,095,904	16,950,819	17,413,898	14,563,318	13,014,354	12,770,775	14,245,185
DAM LSE Internal LBMP Energy Sales	54%	55%	55%	57%	58%	60%	64%	63%	60%	56%	56%	58%
DAM External TC LBMP Energy Sales	4%	2%	1%	5%	2%	1%	1%	3%	3%	2%	2%	3%
DAM Bilateral - Internal Bilaterals	34%	34%	35%	28%	31%	30%	28%	27%	30%	33%	32%	31%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	4%	5%	5%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	3%	2%
Balancing Energy Market MWh	-522,919	-580,900	-741,701	-303,313	-180,848	-143,015	-86,025	224,316	-250,802	-477,109	-394,575	-127,836
Balancing Energy LSE Internal LBMP Energy Sales	-125%	-114%	-118%	-76%	-147%	-203%	-347%	42%	-139%	-111%	-102%	-269%
Balancing Energy External TC LBMP Energy Sales	12%	13%	19%	-13%	55%	77%	204%	56%	49%	21%	28%	138%
Balancing Energy Bilateral - Internal Bilaterals	19%	9%	4%	8%	27%	47%	62%	28%	18%	6%	9%	65%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	5%	3%	5%	7%	10%	15%	5%	5%	4%	6%	27%
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-12%	-8%	-24%	-42%	-32%	-34%	-31%	-32%	-21%	-40%	-66%
Transactions Summary												
LBMP	56%	56%	54%	62%	59%	61%	65%	66%	62%	57%	57%	60%
Internal Bilaterals	36%	36%	37%	29%	32%	31%	28%	27%	30%	35%	34%	32%
Import Bilaterals	5%	5%	6%	6%	5%	5%	4%	4%	5%	5%	6%	5%
Export Bilaterals	2%	2%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%
Wheels Through	1%	1%	1%	1%	2%	2%	1%	1%	2%	1%	2%	2%
Market Share of Total Load												
Day Ahead Market	103.7%	104.5%	105.9%	102.5%	101.4%	101.0%	100.5%	98.7%	101.8%	103.8%	103.2%	100.9%
Balancing Energy +	-3.7%	-4.5%	-5.9%	-2.5%	-1.4%	-1.0%	-0.5%	1.3%	-1.8%	-3.8%	-3.2%	-0.9%
Total MWh	14,237,996	13,033,853	12,672,080	12,192,828	12,779,038	13,952,889	16,864,794	17,638,213	14,312,516	12,537,245	12,376,200	14,117,349
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456	532	548	458	391	398	433

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

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

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

Virtual Transactions are not reflected in this chart.

NYISO Markets 2017 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 *	\$37.22	\$28.84	\$32.04									
Standard Deviation	\$13.20	\$7.97	\$11.95									
Load Weighted Price **	\$38.42	\$29.66	\$32.96									
<u>RTC LBMP</u>												
Price *	\$32.87	\$24.09	\$28.86									
Standard Deviation	\$14.57	\$9.52	\$13.70									
Load Weighted Price **	\$33.96	\$24.81	\$29.67									
<u>REAL TIME LBMP</u>												
Price *	\$34.61	\$25.14	\$31.21									
Standard Deviation	\$18.20	\$14.21	\$25.02									
Load Weighted Price **	\$35.80	\$25.84	\$32.21									
Average Daily Energy Sendout/Month GWh	431	418	419									

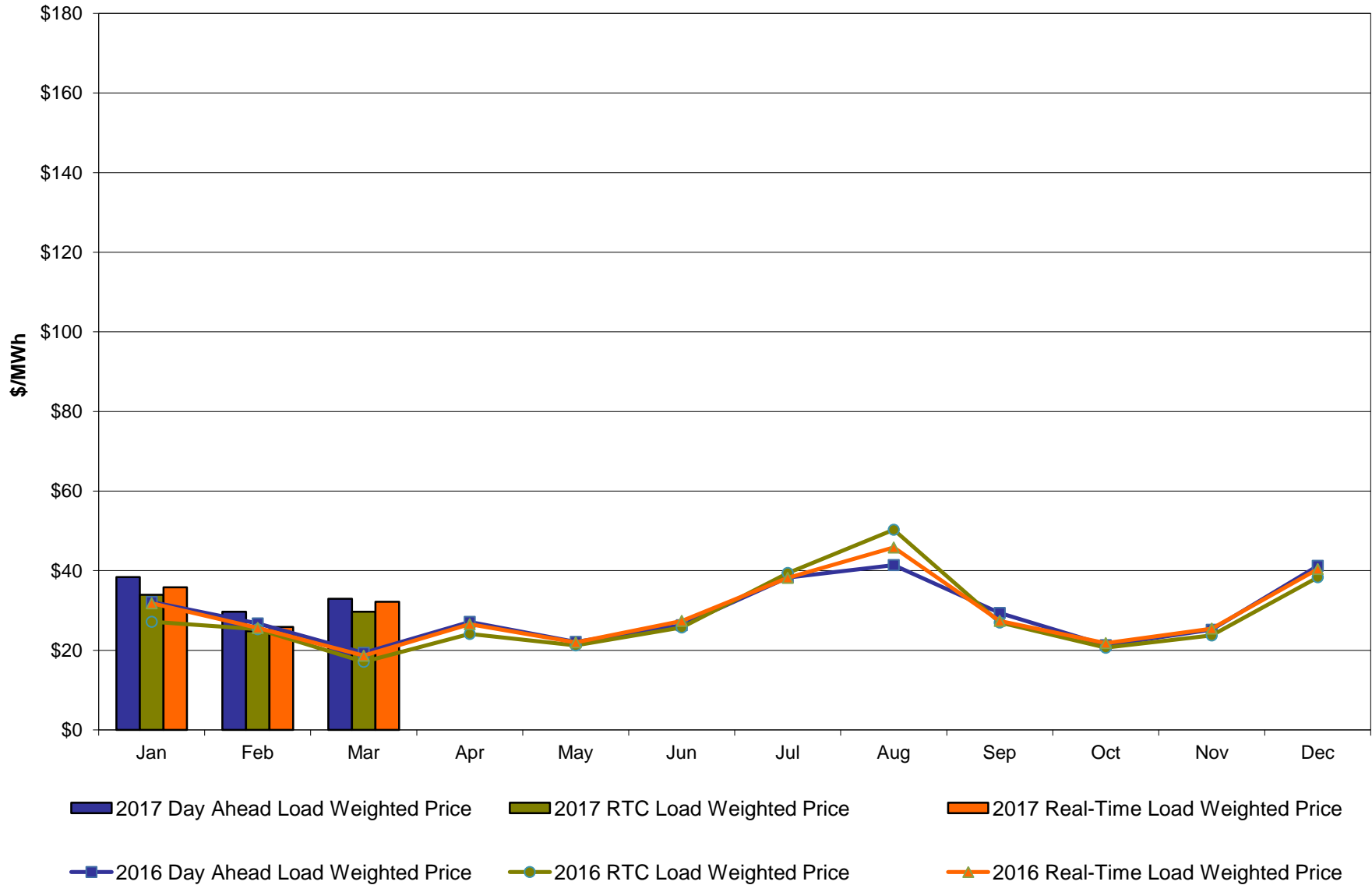
NYISO Markets 2016 Energy Statistics

	<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	\$35.24	\$38.25	\$27.15	\$20.37	\$24.35	\$39.83
Standard Deviation	\$10.86	\$12.46	\$6.99	\$6.95	\$7.04	\$9.21	\$18.37	\$20.59	\$13.55	\$7.48	\$7.32	\$15.08
Load Weighted Price **	\$32.13	\$26.75	\$19.37	\$27.14	\$22.12	\$26.30	\$38.29	\$41.41	\$29.38	\$21.29	\$25.15	\$41.22
<u>RTC LBMP</u>												
Price *	\$26.12	\$24.10	\$16.41	\$23.41	\$19.96	\$24.29	\$36.22	\$45.03	\$24.70	\$19.76	\$23.02	\$37.08
Standard Deviation	\$16.06	\$17.89	\$11.32	\$9.09	\$11.44	\$16.58	\$38.04	\$70.57	\$17.46	\$8.96	\$9.49	\$16.72
Load Weighted Price **	\$27.16	\$25.29	\$17.11	\$24.10	\$21.23	\$25.73	\$39.42	\$50.28	\$26.97	\$20.64	\$23.73	\$38.35
<u>REAL TIME LBMP</u>												
Price *	\$30.15	\$24.28	\$17.84	\$25.71	\$20.67	\$25.87	\$34.40	\$40.87	\$24.90	\$20.91	\$24.72	\$39.00
Standard Deviation	\$60.09	\$18.19	\$15.06	\$16.59	\$12.84	\$19.27	\$38.56	\$52.85	\$20.70	\$12.15	\$12.71	\$20.92
Load Weighted Price **	\$31.80	\$25.61	\$18.64	\$26.57	\$21.99	\$27.39	\$38.20	\$45.82	\$27.38	\$21.81	\$25.45	\$40.42
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456	532	548	458	391	398	433

* Average zonal load weighted prices.

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

NYISO Monthly Average Internal LBMPs 2016- 2017

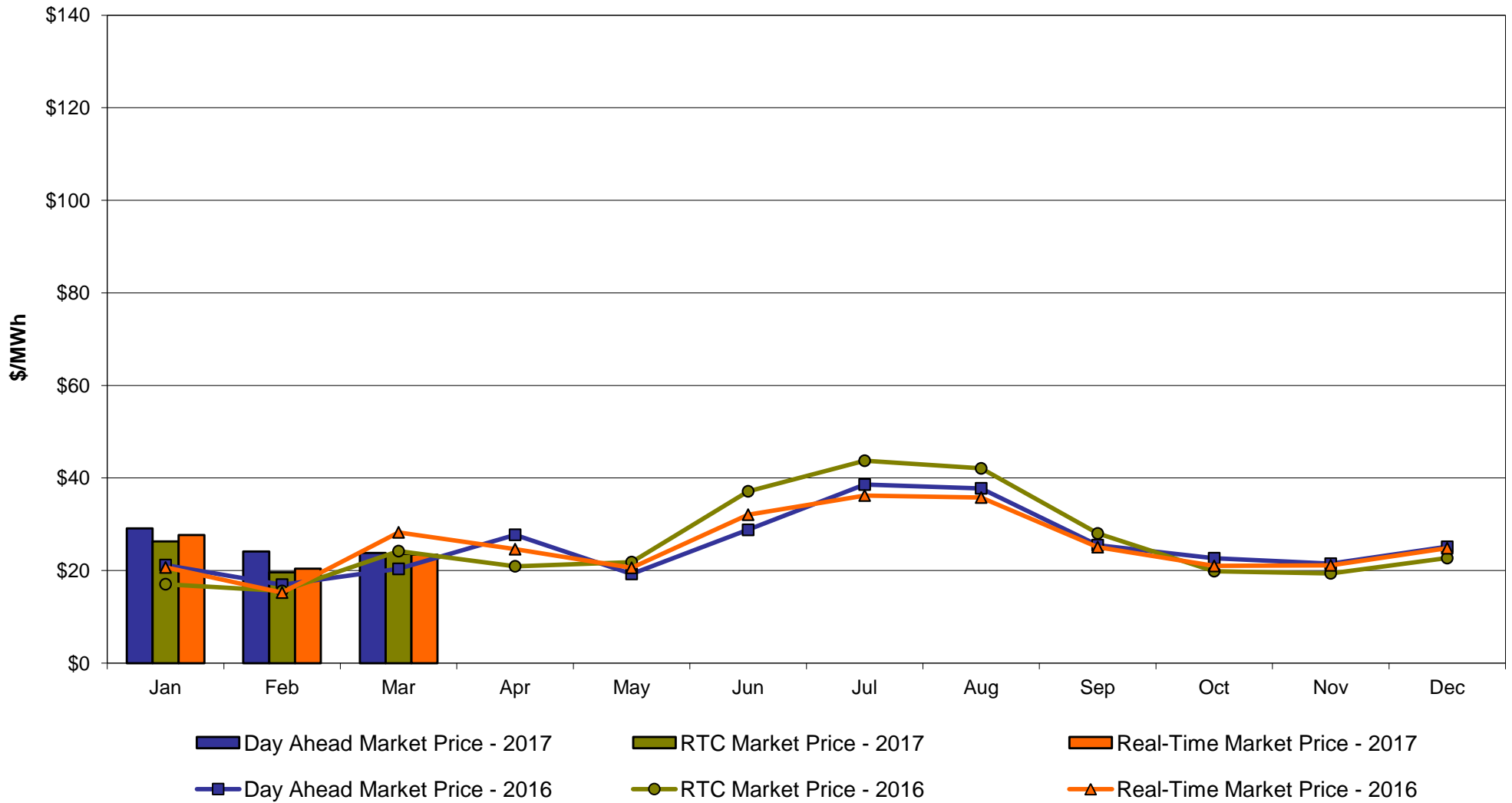


March 2017 Zonal LBMP Statistics for NYISO (\$/MWh)

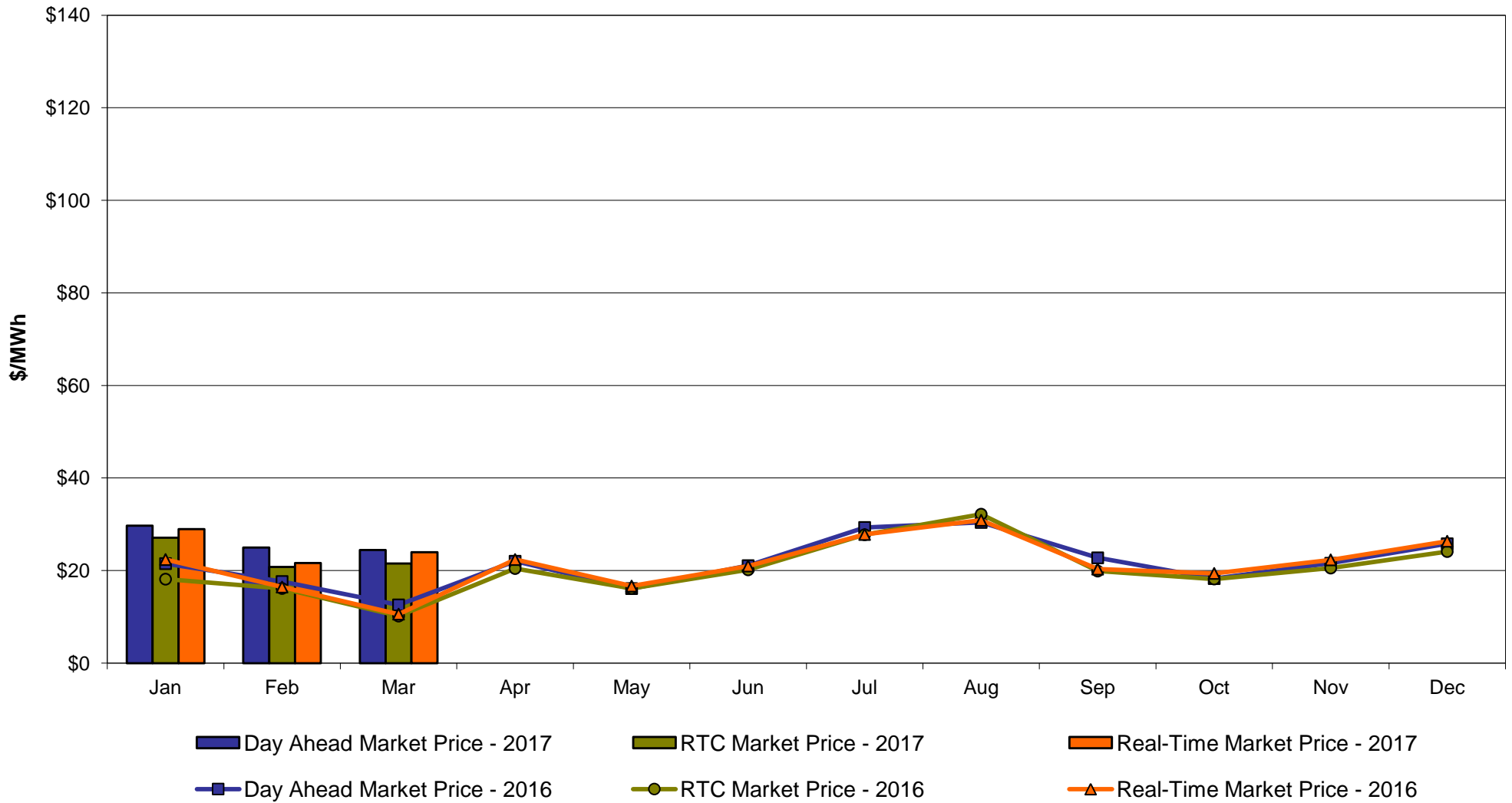
	<u>WEST Zone A</u>	<u>GENESEE Zone B</u>	<u>NORTH Zone D</u>	<u>CENTRAL Zone C</u>	<u>MOHAWK VALLEY Zone E</u>	<u>CAPITAL Zone F</u>	<u>HUDSON VALLEY Zone G</u>	<u>MILLWOOD Zone H</u>	<u>DUNWOODIE Zone I</u>	<u>NEW YORK CITY Zone J</u>	<u>LONG ISLAND Zone K</u>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	23.80	23.32	17.83	24.47	24.65	37.52	35.43	35.73	35.65	36.04	38.34
Standard Deviation	8.68	8.72	8.42	8.95	9.10	15.92	14.10	14.23	14.14	14.23	15.30
<u>RTC LBMP</u>											
Unweighted Price *	23.61	20.55	16.10	21.55	21.90	33.72	31.60	31.88	31.76	32.39	33.91
Standard Deviation	35.04	13.75	18.40	13.94	14.04	16.89	14.89	15.07	14.98	14.86	16.35
<u>REAL TIME LBMP</u>											
Unweighted Price *	23.46	22.96	16.68	23.95	24.37	36.71	34.52	34.80	34.68	35.48	36.59
Standard Deviation	24.71	24.55	36.44	25.08	25.49	27.15	26.38	26.58	26.45	26.67	27.10
	<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 *	22.92	18.06	18.06	29.35	36.50	37.92	37.45	37.58	35.83	35.85	17.77
Standard Deviation	8.15	8.81	8.81	10.82	14.99	15.15	14.97	14.98	14.05	14.11	8.03
<u>RTC LBMP</u>											
Unweighted Price *	20.26	15.55	15.55	26.91	32.00	34.06	33.94	33.80	32.35	32.43	16.15
Standard Deviation	17.25	21.78	21.78	16.18	17.60	18.93	18.79	18.76	17.77	17.67	20.21
<u>REAL TIME LBMP</u>											
Unweighted Price *	21.71	16.24	16.24	29.34	35.50	36.40	36.45	36.50	35.55	35.47	14.63
Standard Deviation	41.52	42.04	42.04	27.74	27.85	27.09	26.97	29.78	29.55	29.61	34.23

* Straight LBMP averages

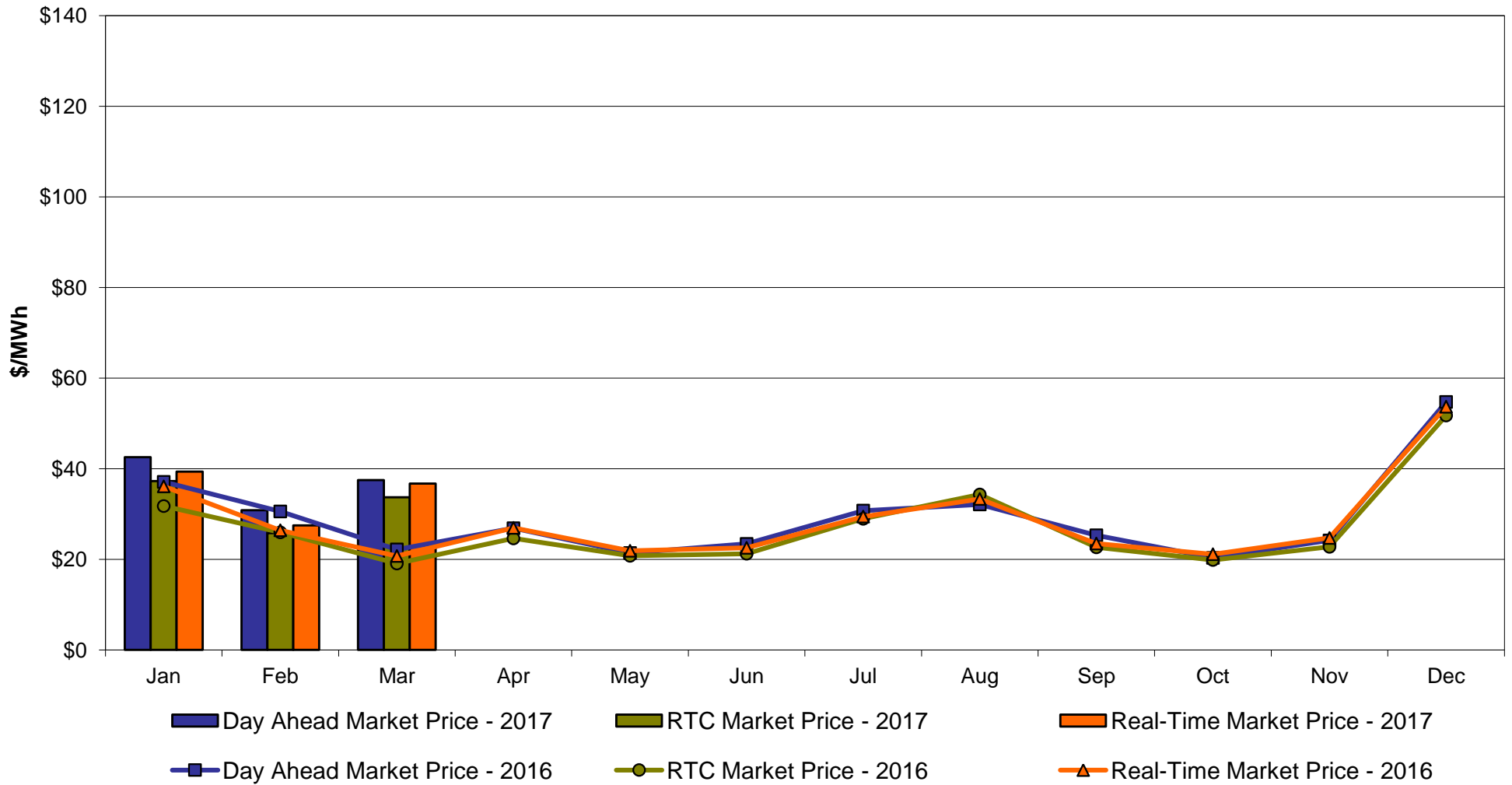
**West Zone A
Monthly Average LBMP Prices 2016 - 2017**



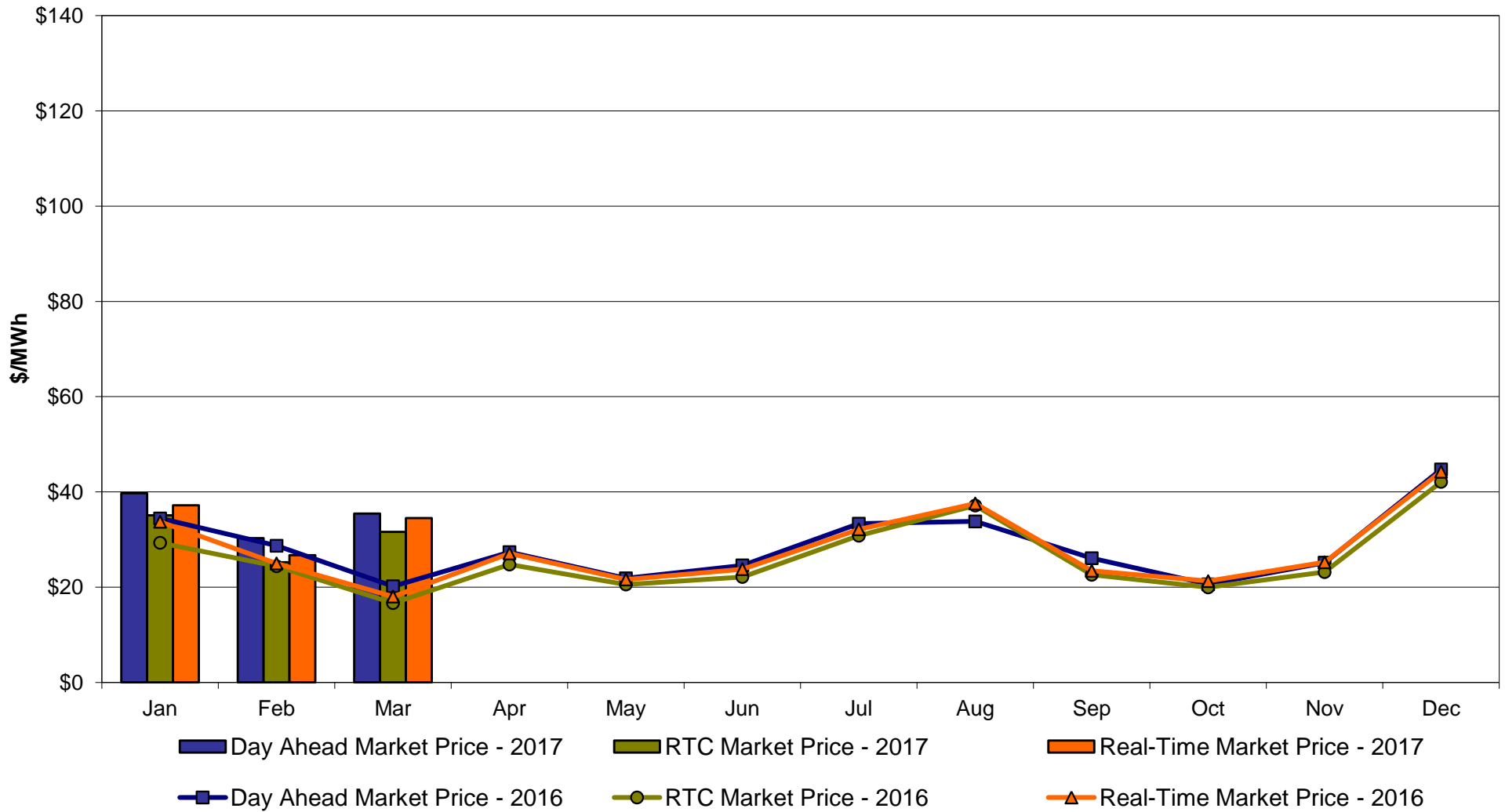
**Central Zone C
Monthly Average LBMP Prices 2016 - 2017**



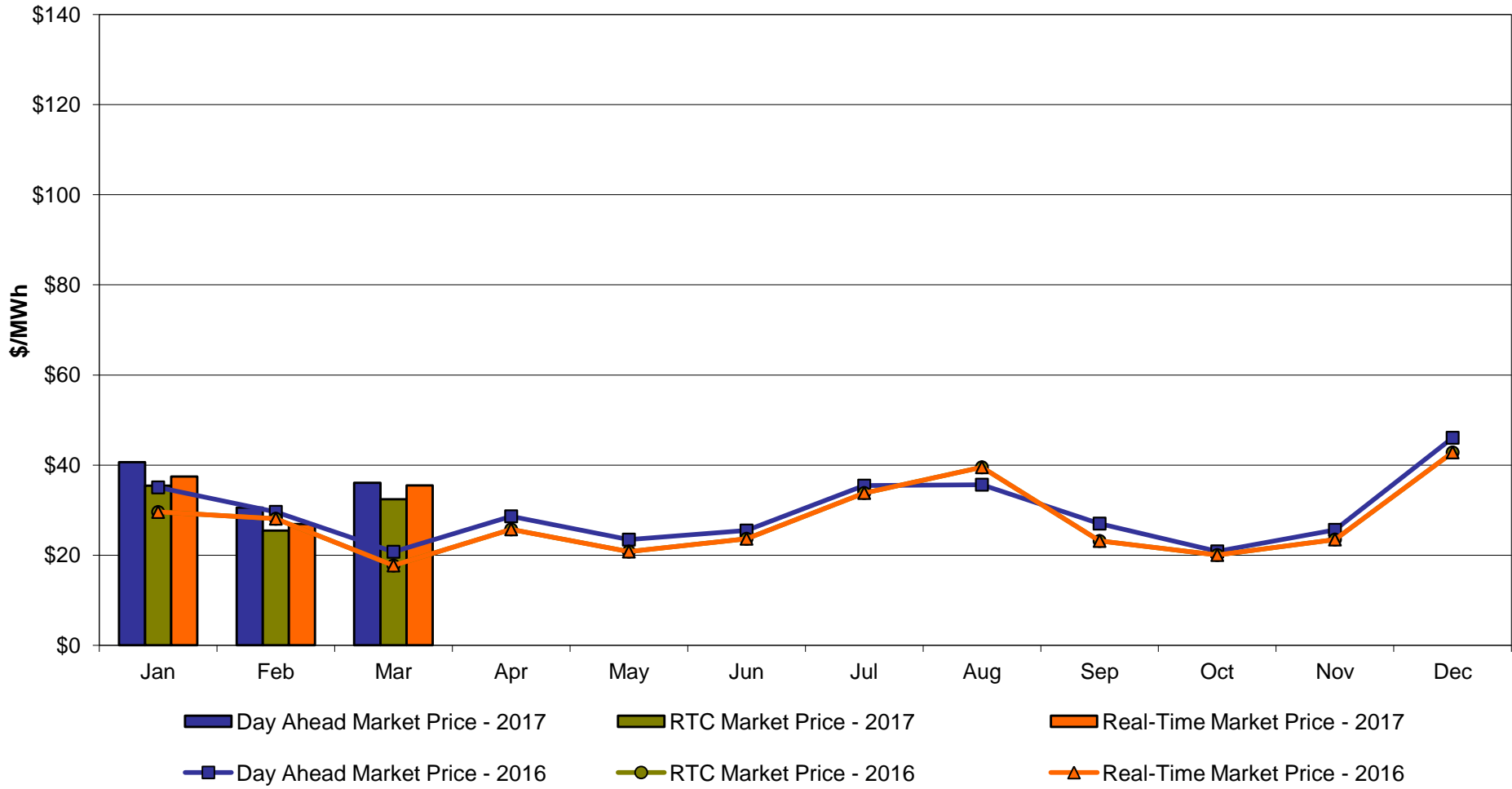
Capital Zone F Monthly Average LBMP Prices 2016 - 2017



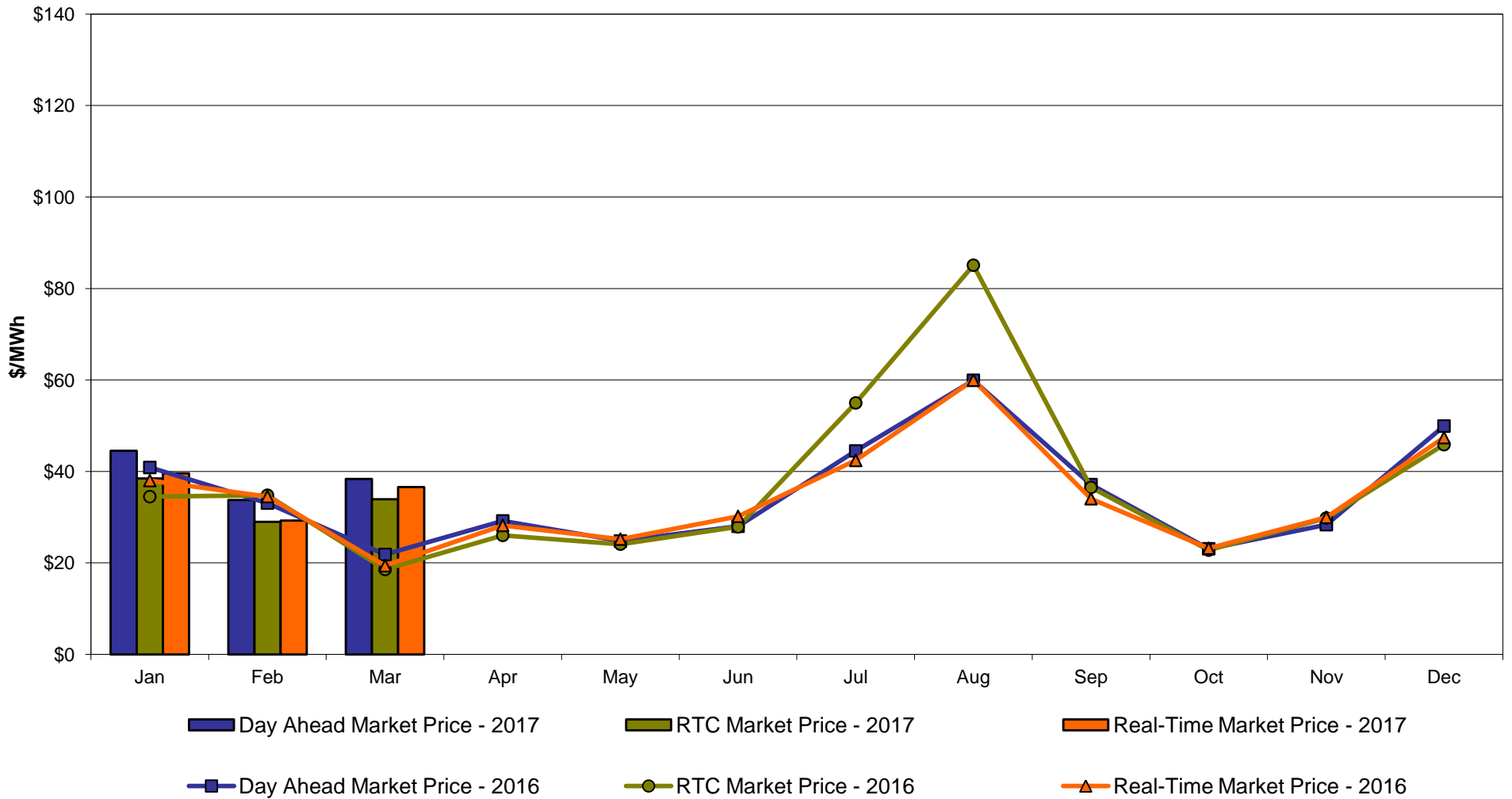
Hudson Valley Zone G Monthly Average LBMP Prices 2016 - 2017



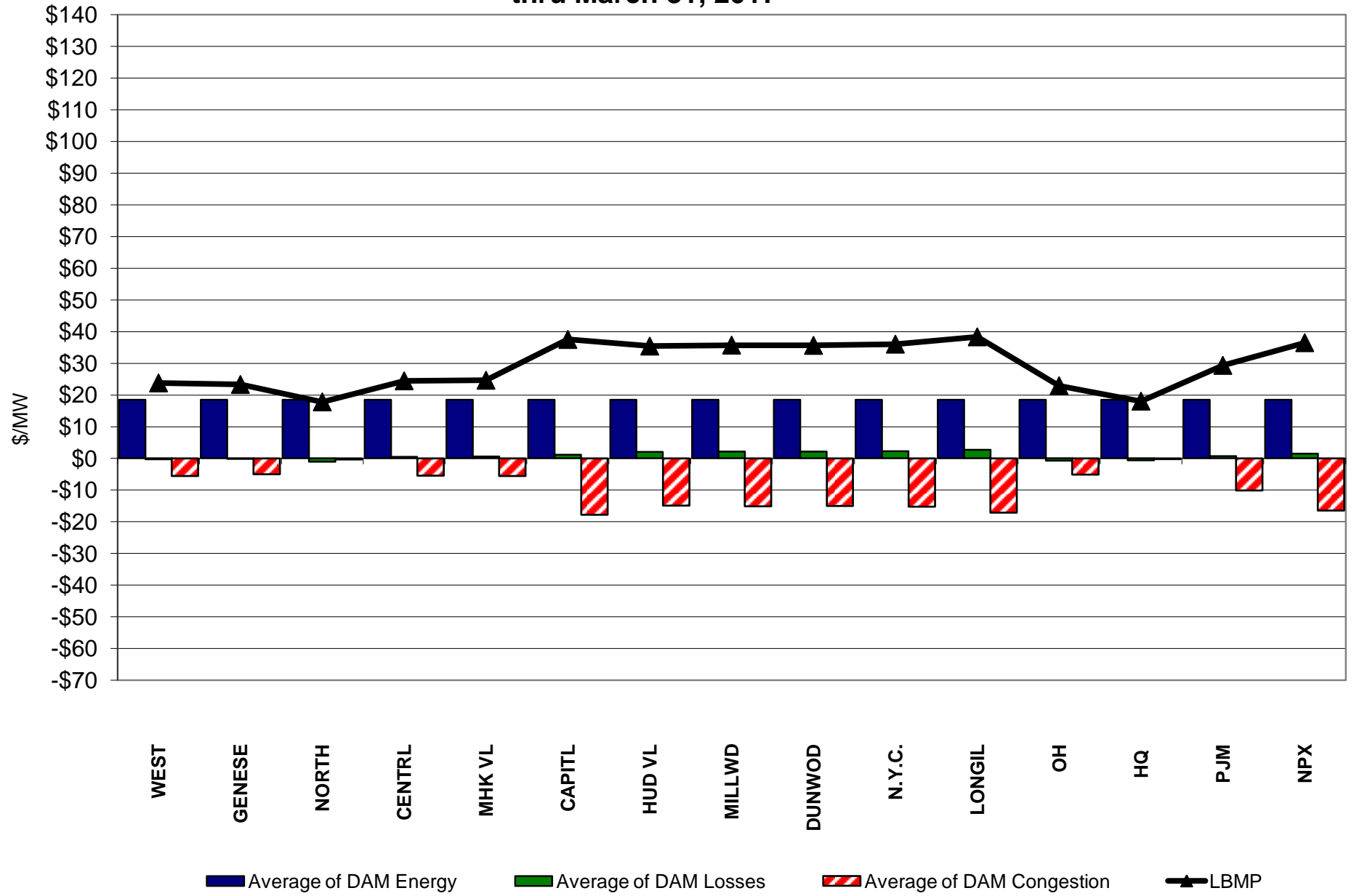
NYC Zone J Monthly Average LBMP Prices 2016 - 2017



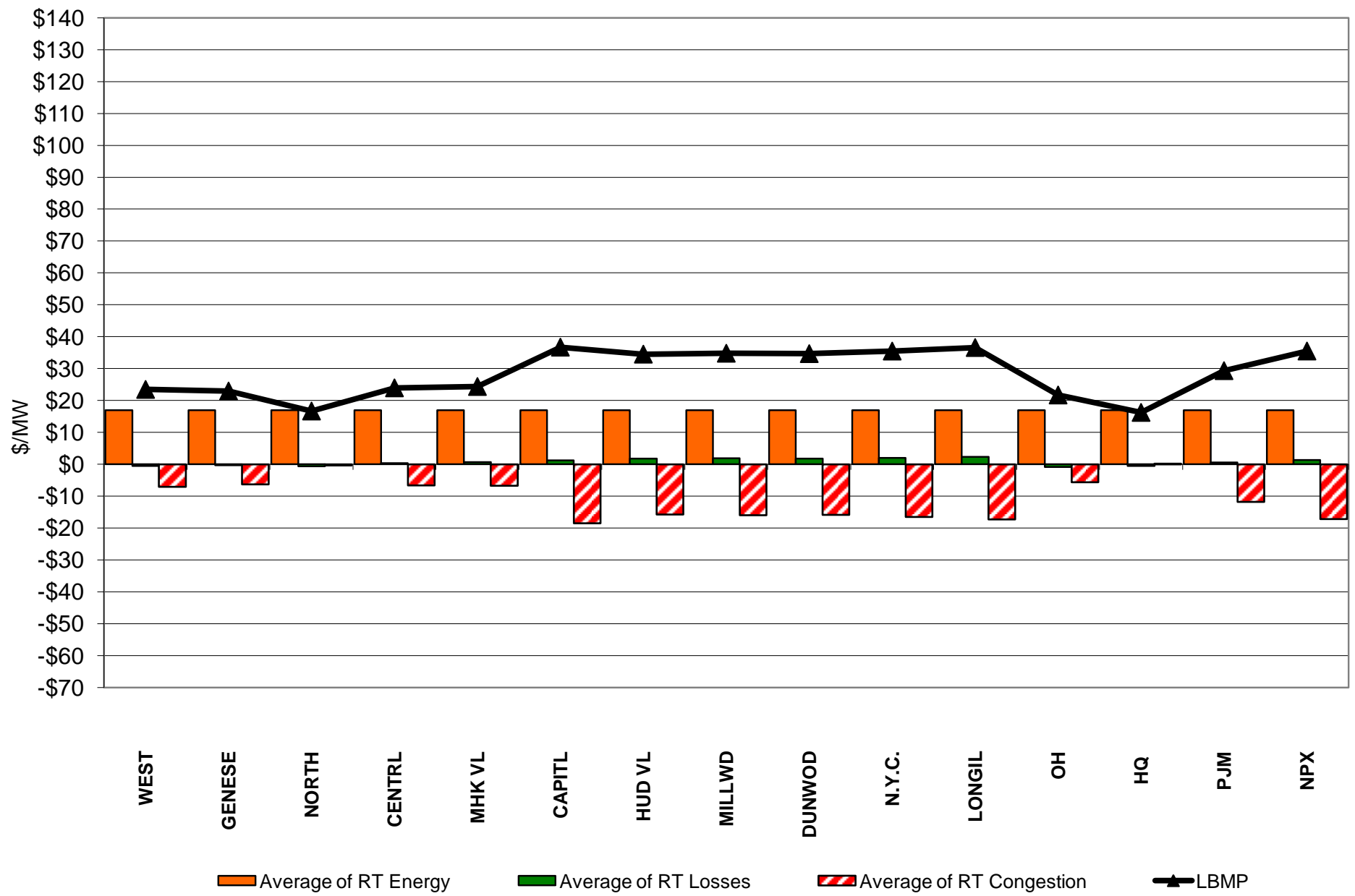
Long Island Zone K Monthly Average LBMP Prices 2016 - 2017



**DAM Zonal Unweighted Monthly Average LBMP Components
thru March 31, 2017**

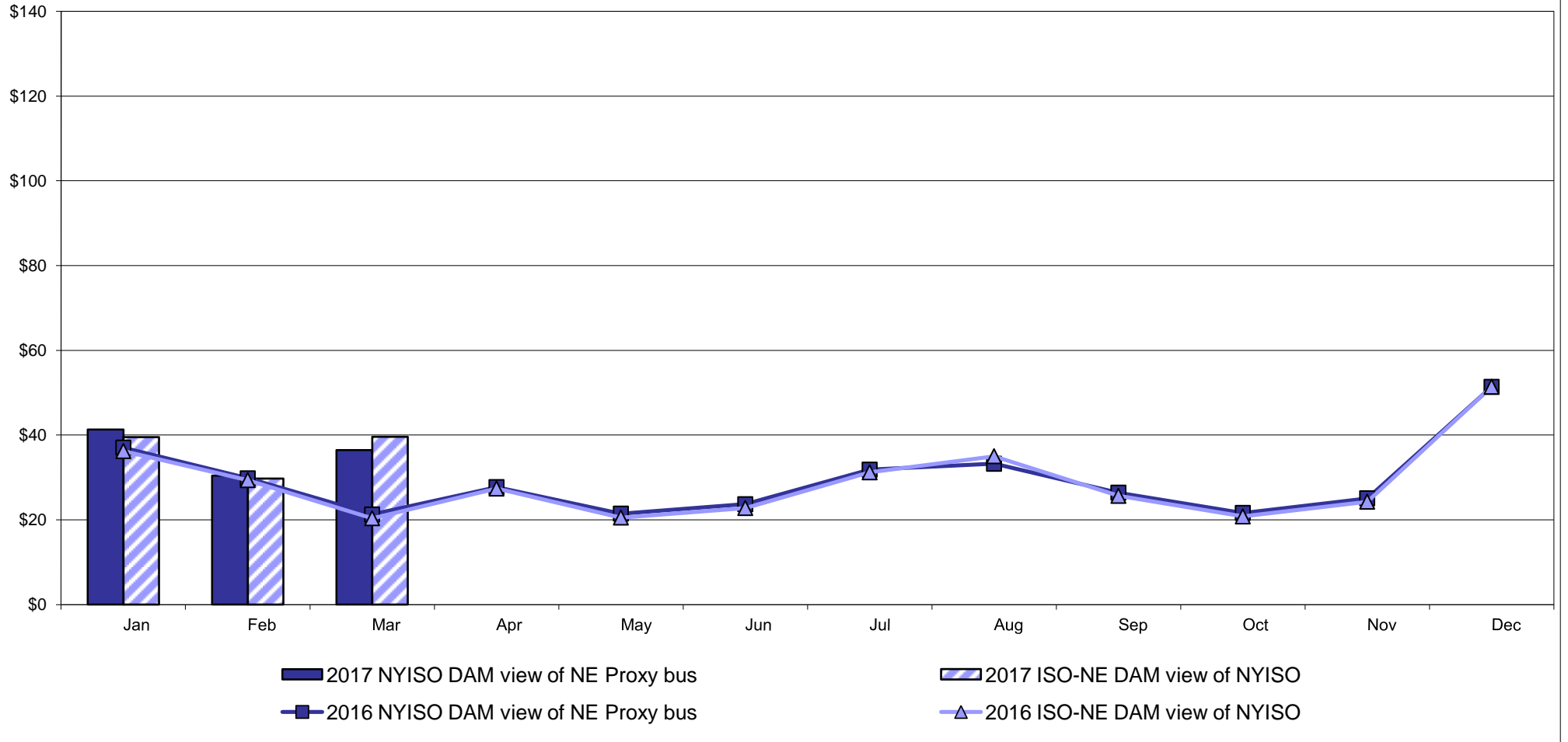


**RT Zonal Unweighted Monthly Average LBMP Components
thru March 31, 2017**

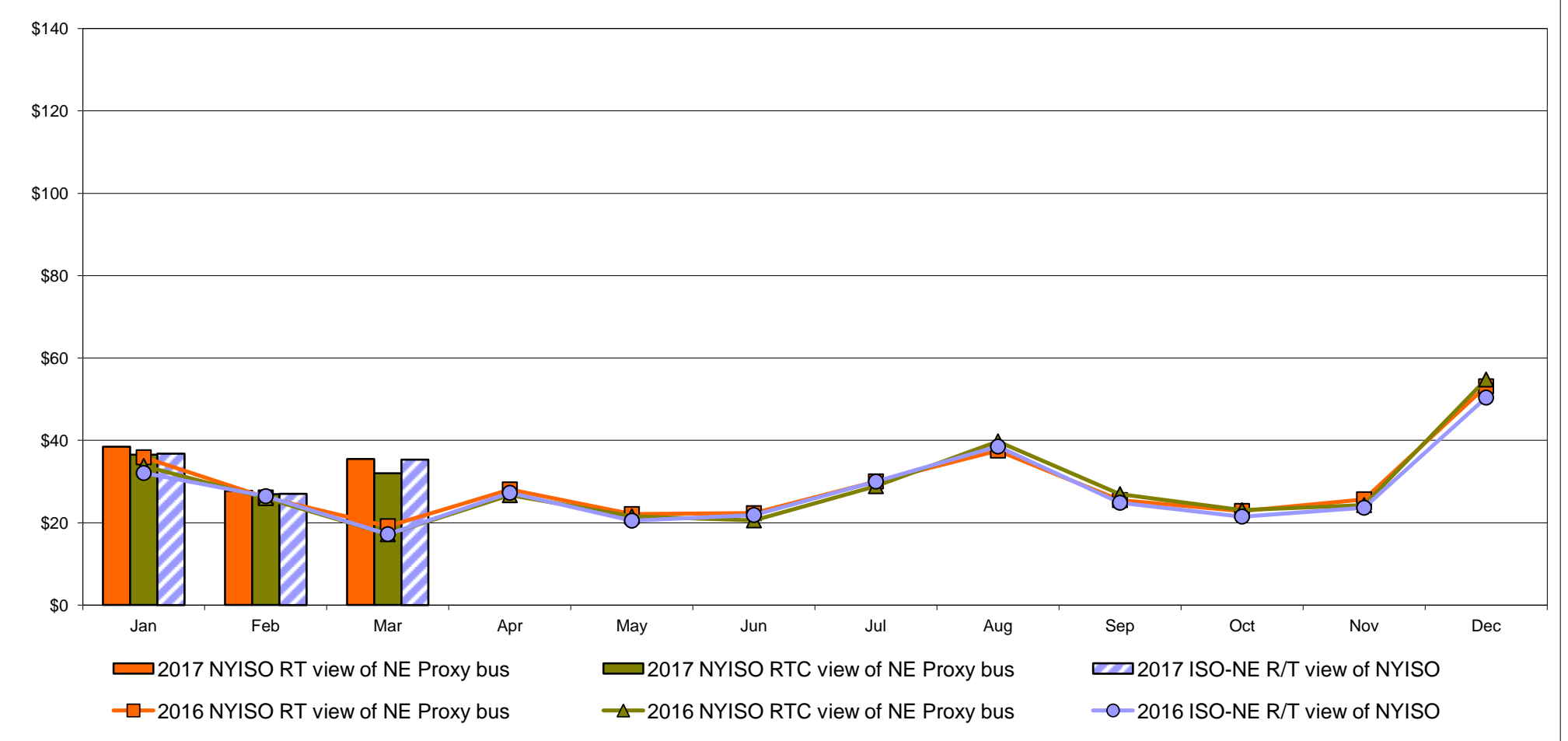


External Comparison ISO-New England

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

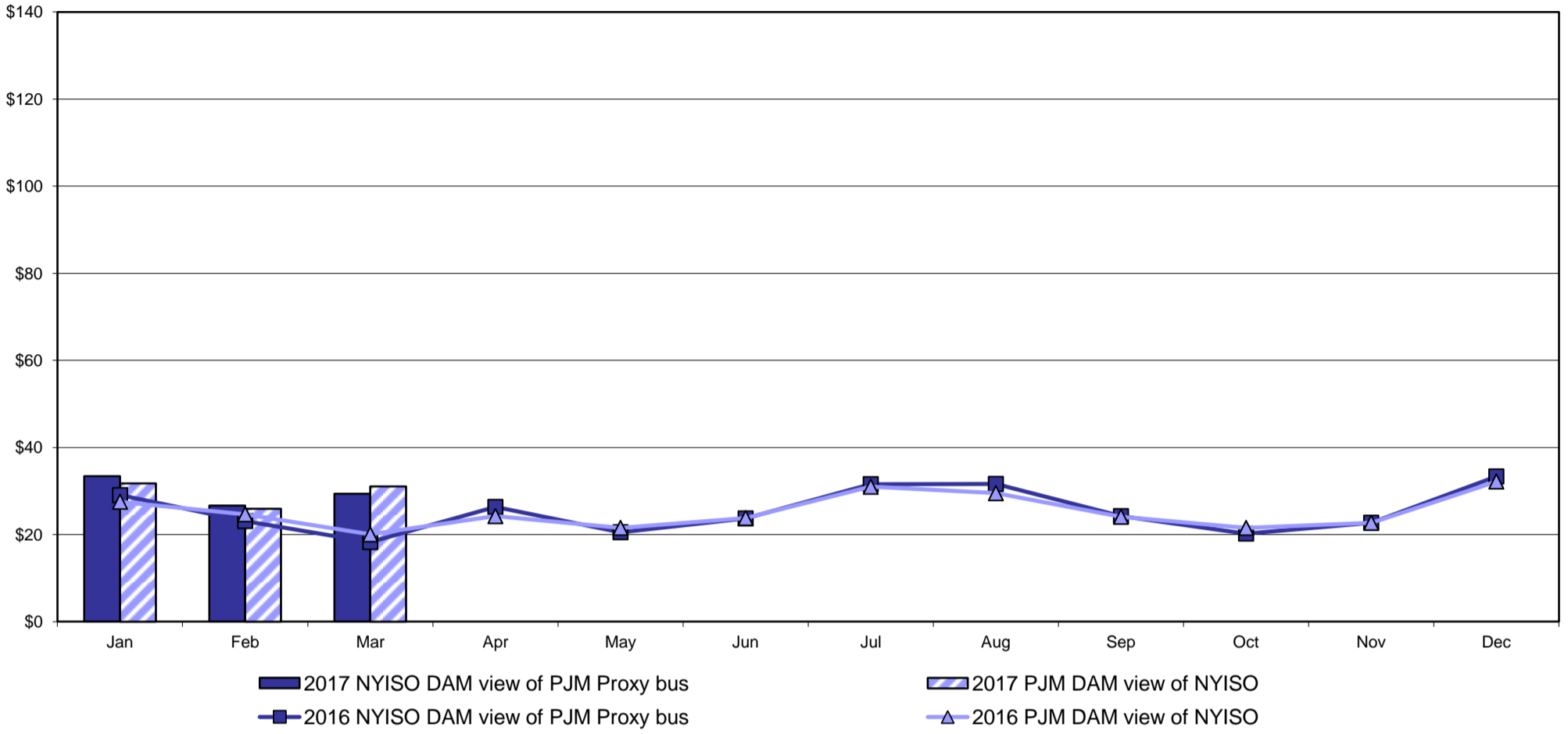


Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

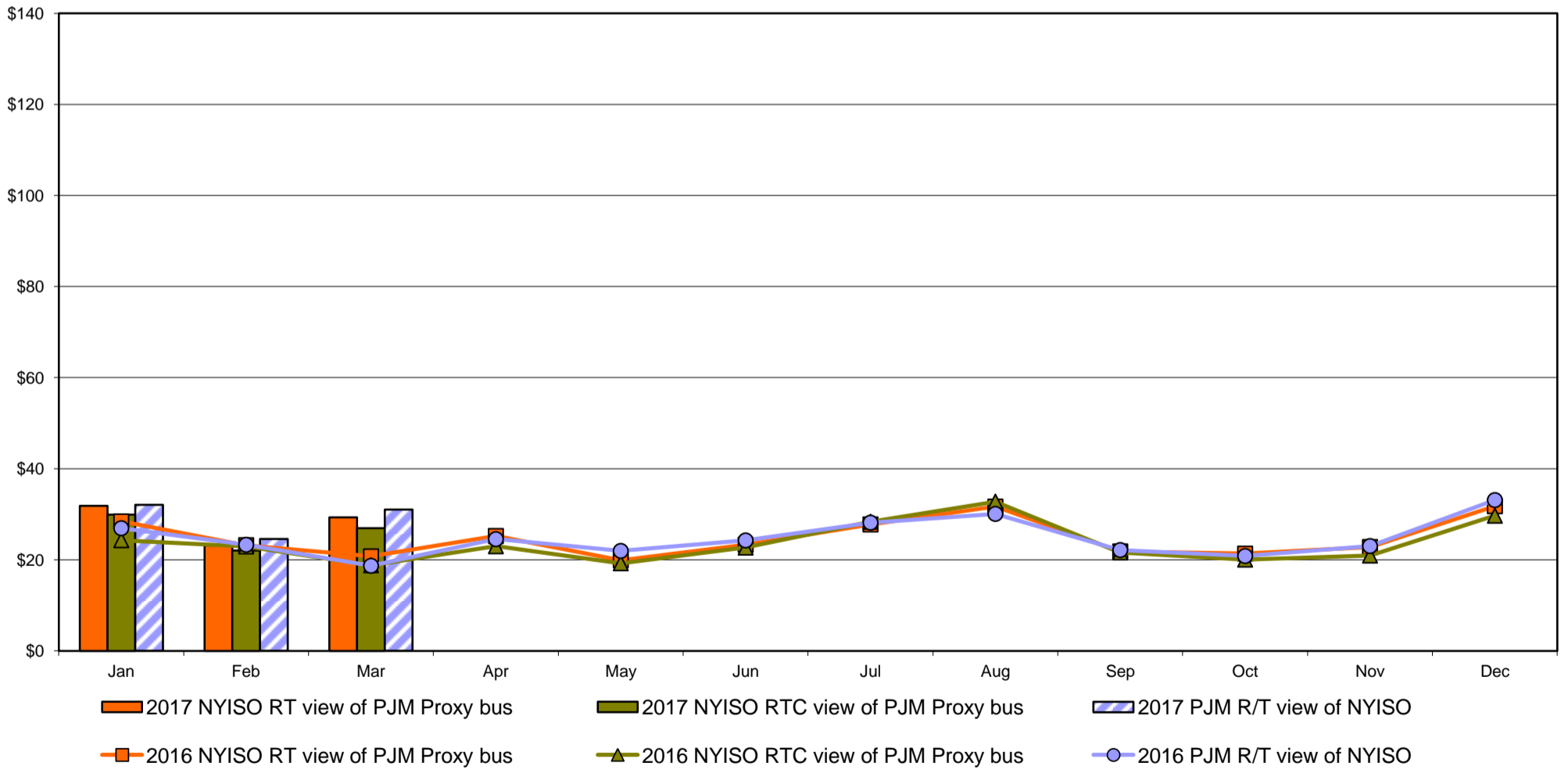


External Comparison PJM

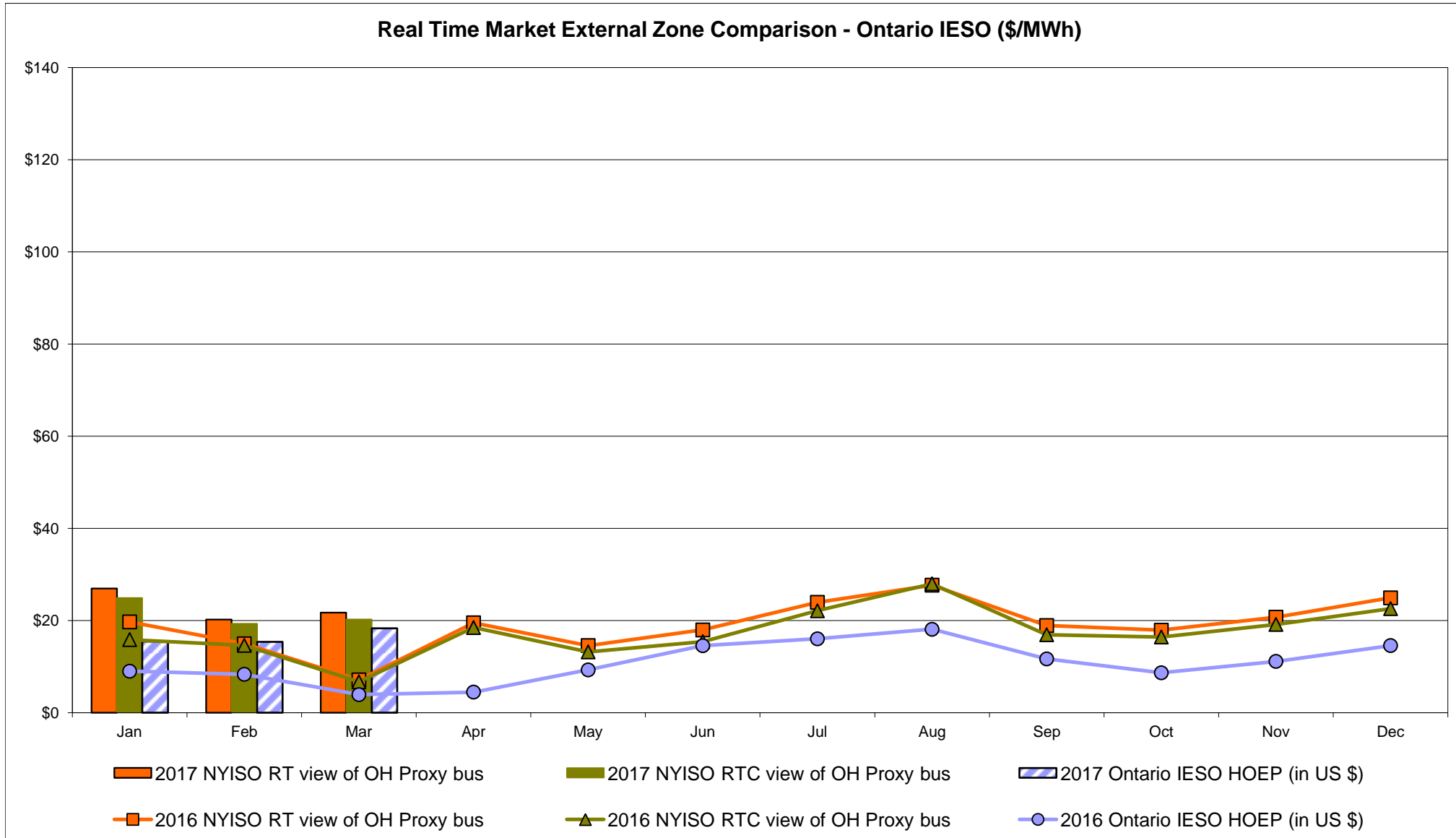
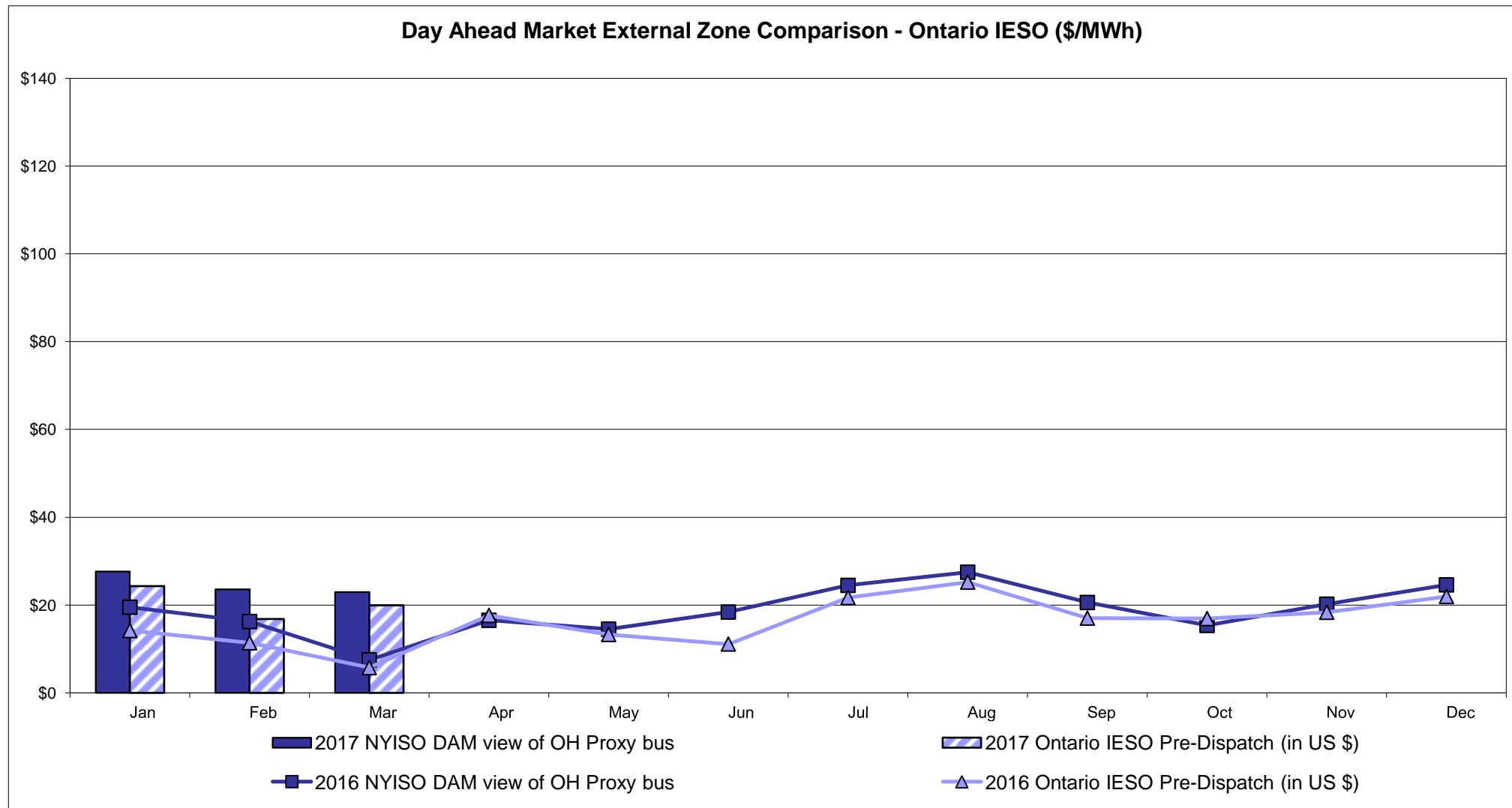
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

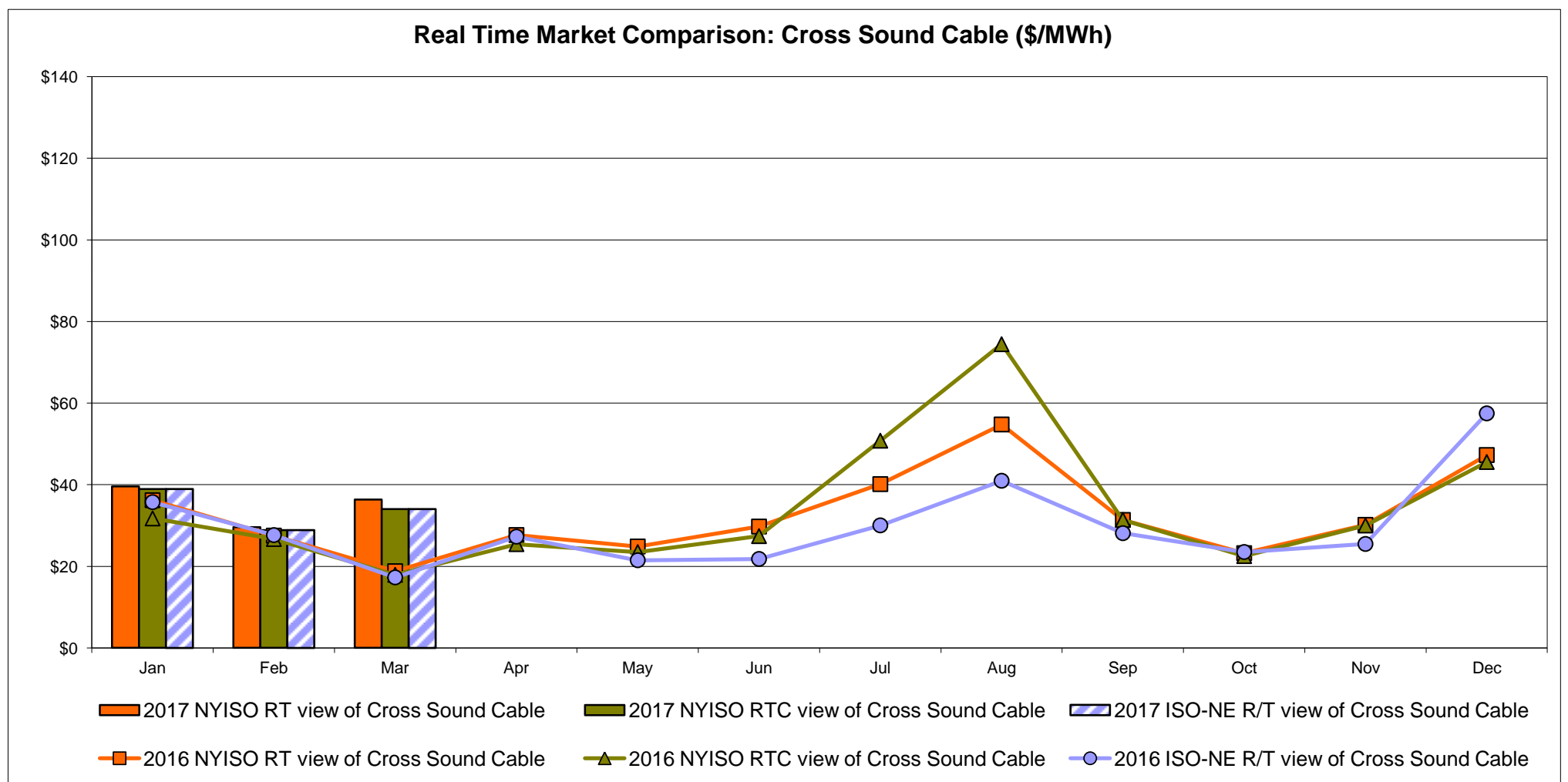
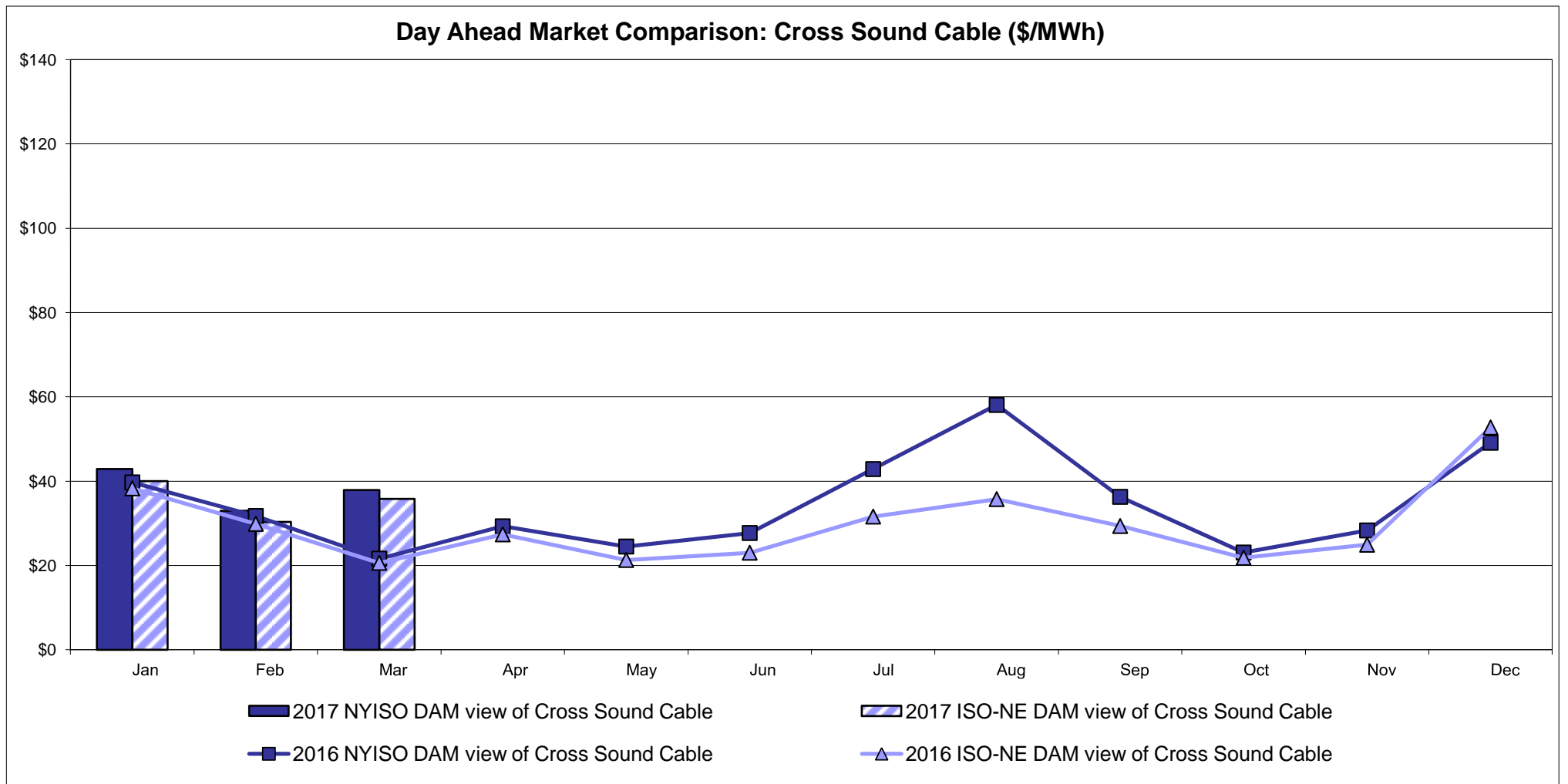


External Comparison Ontario IESO



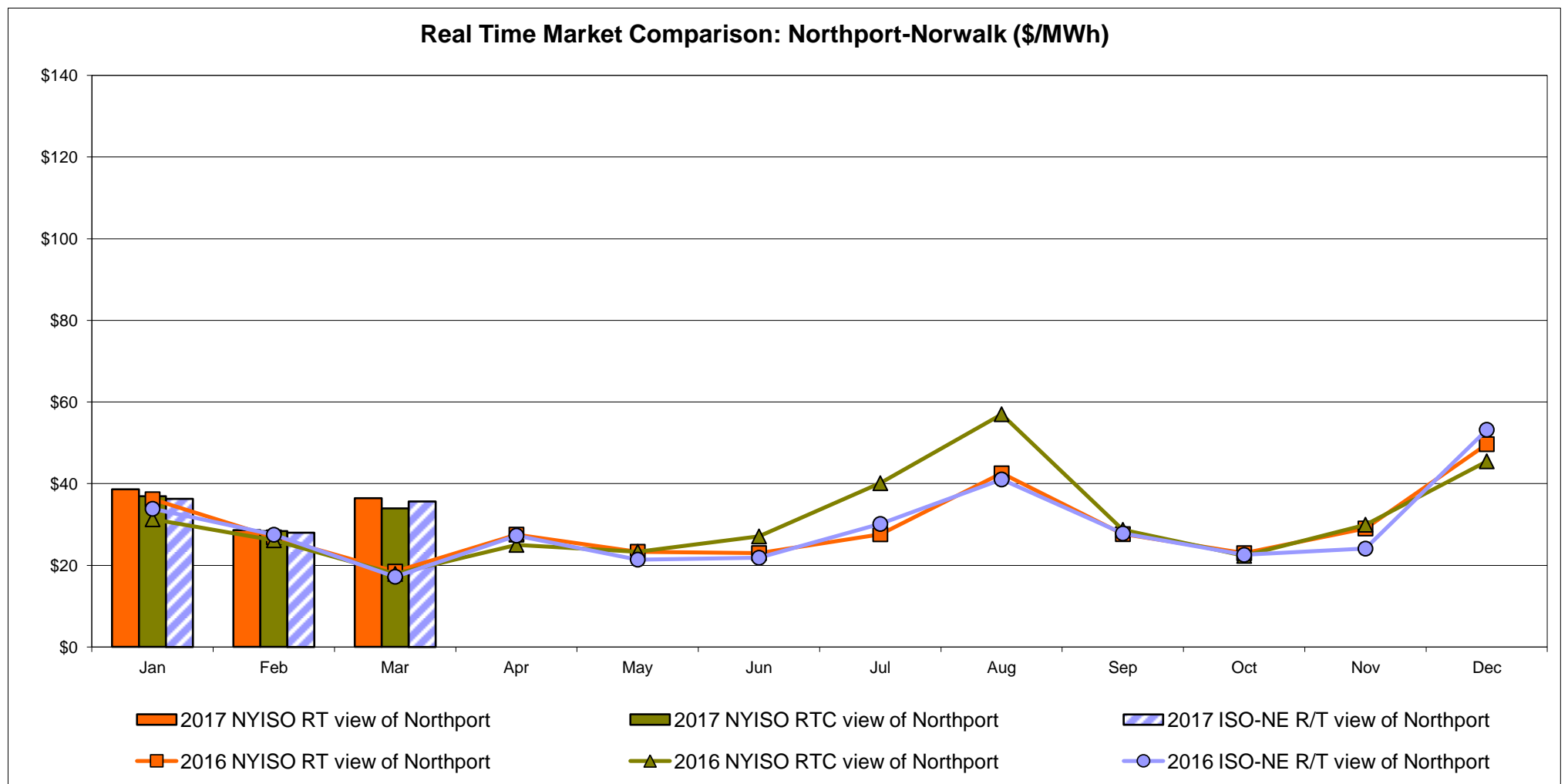
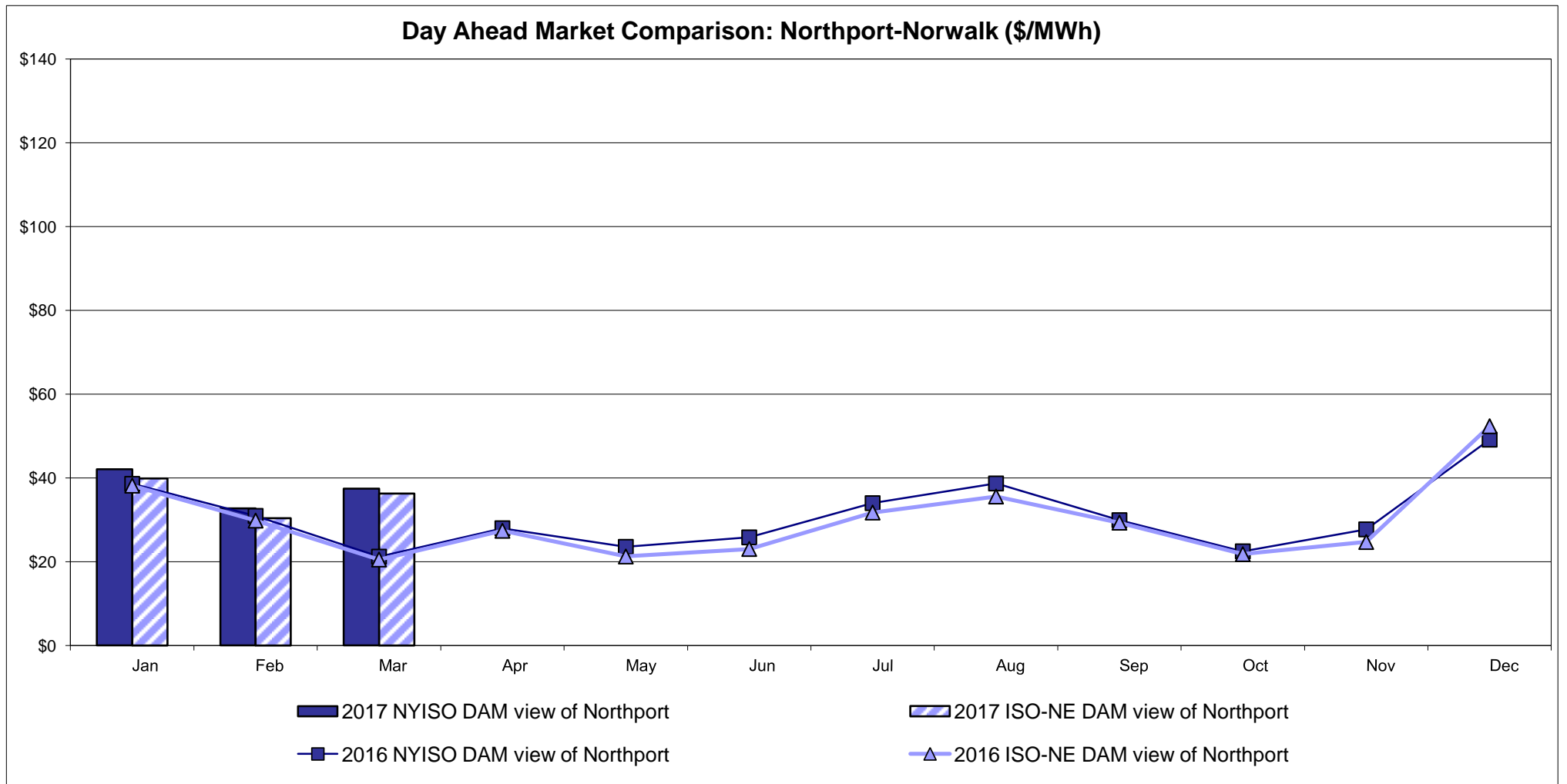
Notes: Exchange factor used for March 2017 was 0.746993352 to US
 HOEP: Hourly Ontario Energy Price
 Pre-Dispatch: Projected Energy Price

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.

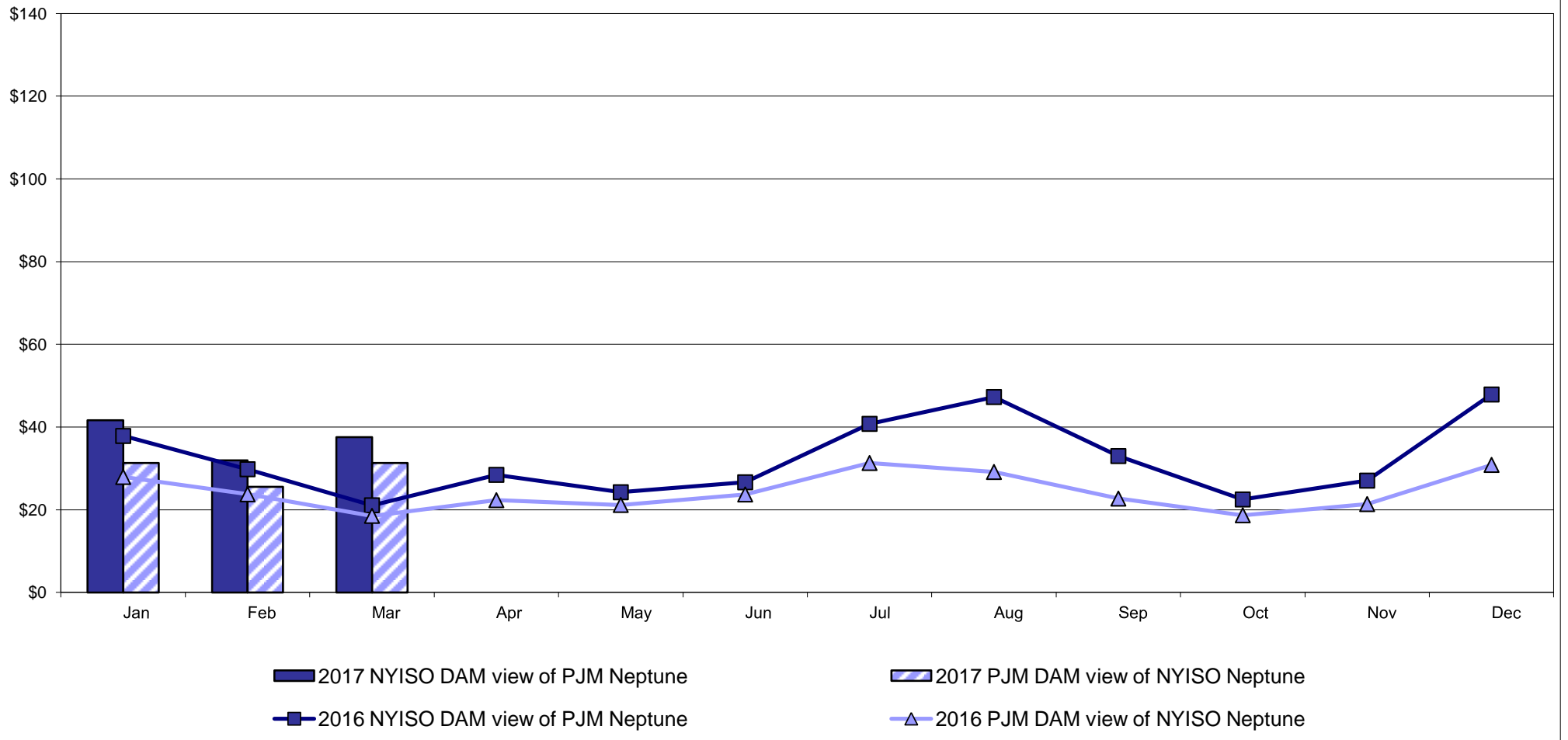
External Controllable Line: Northport - Norwalk (New England)



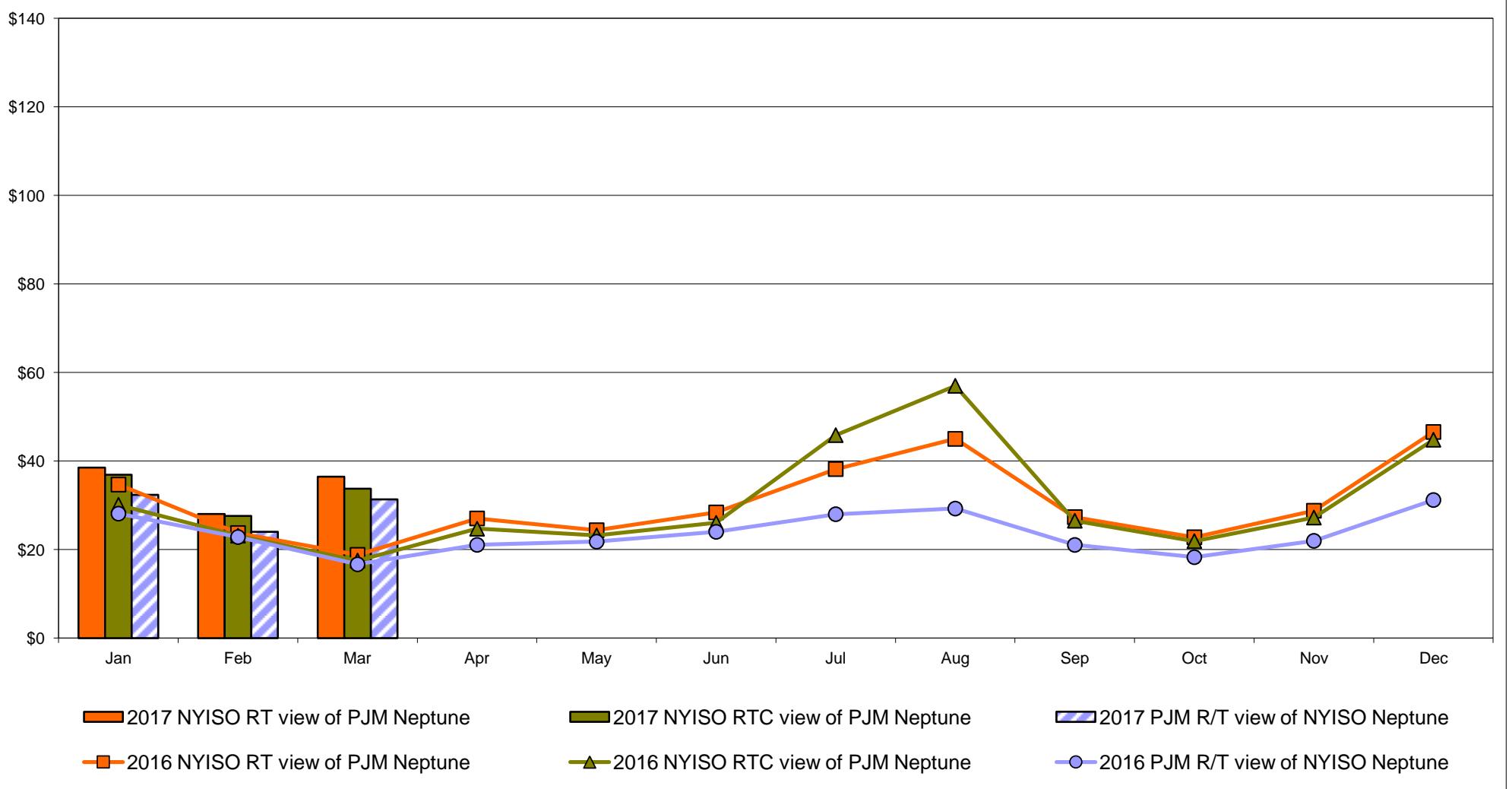
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

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

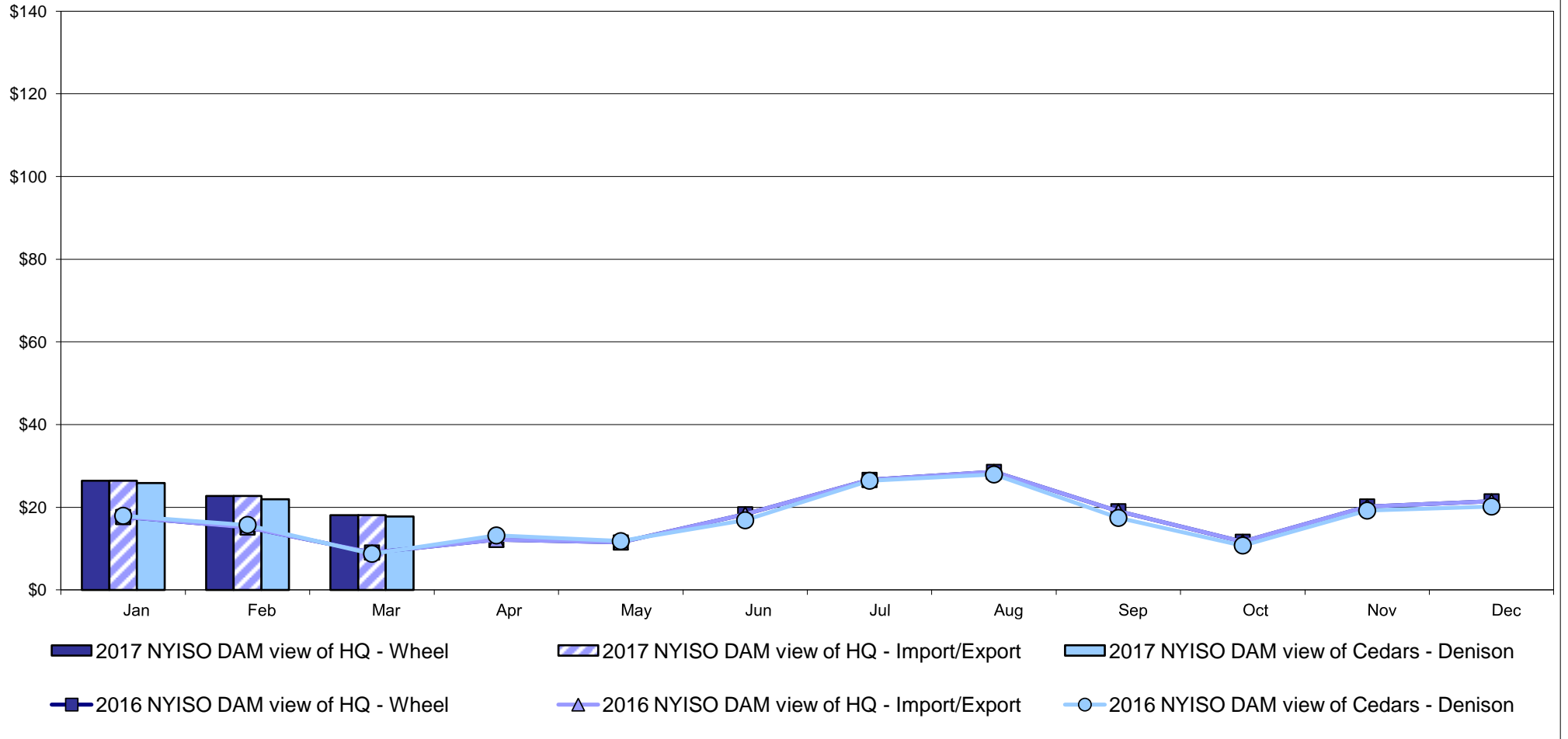


Real Time Market Comparison: Neptune (\$/MWh)

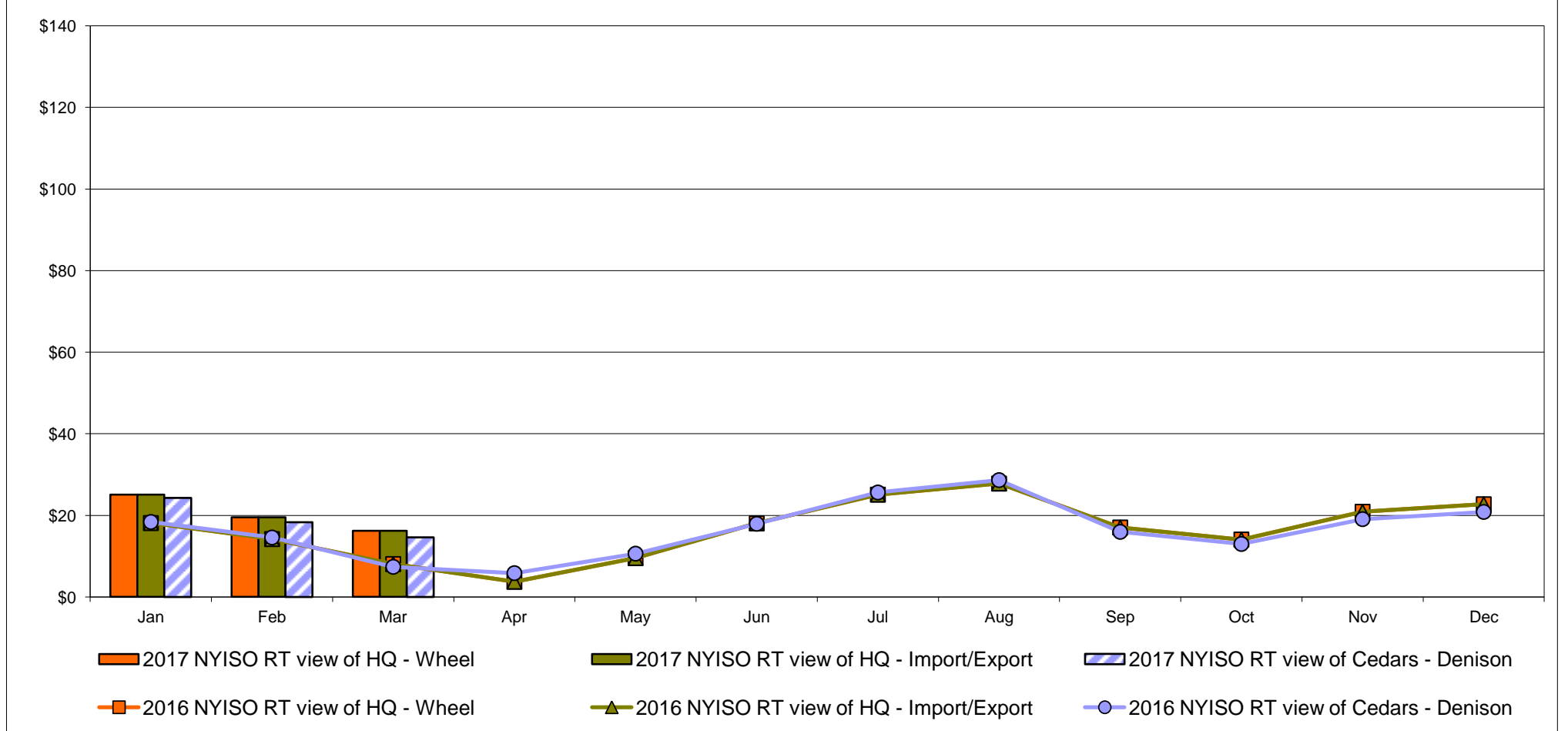


External Comparison Hydro-Quebec

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

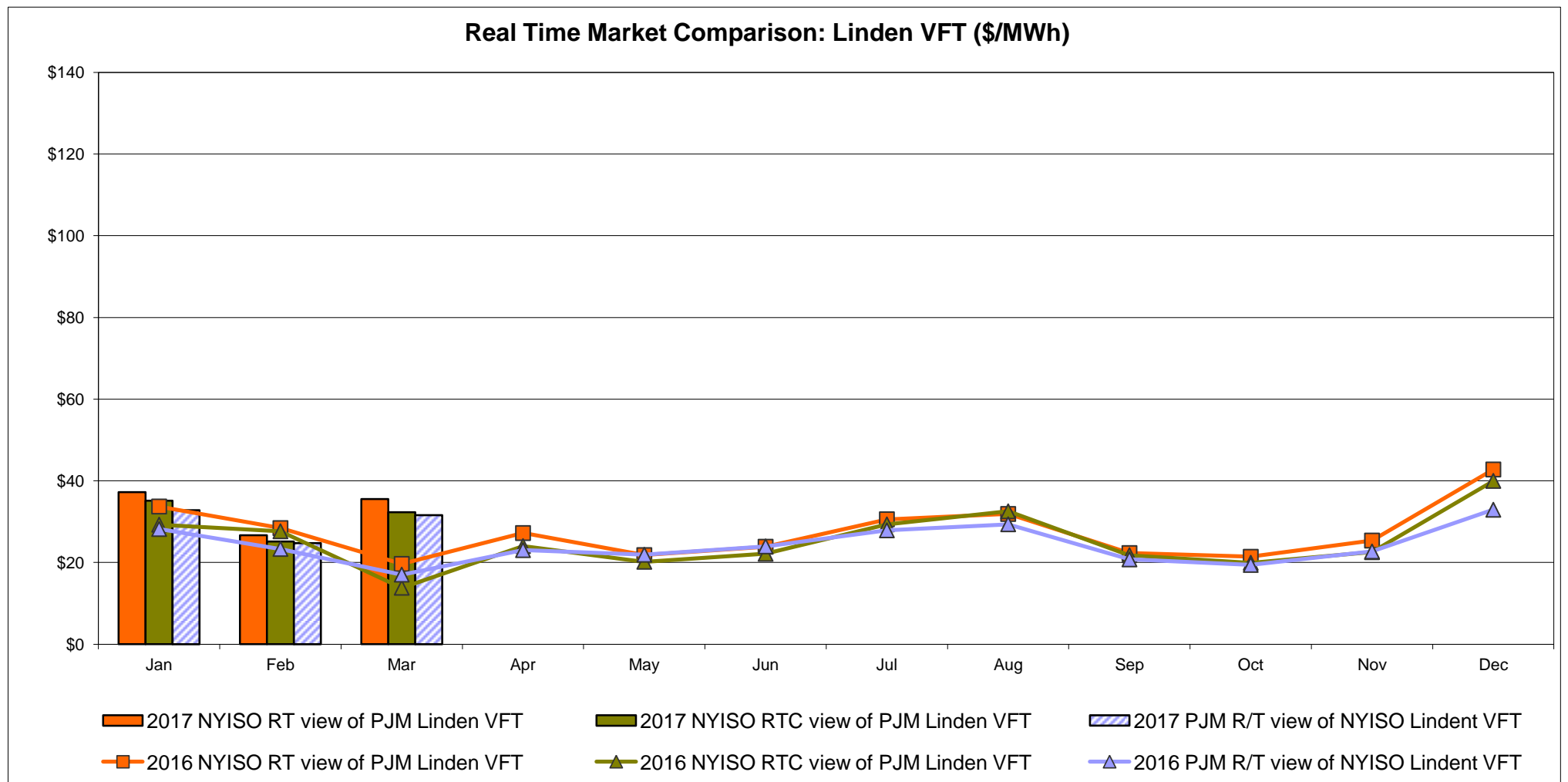
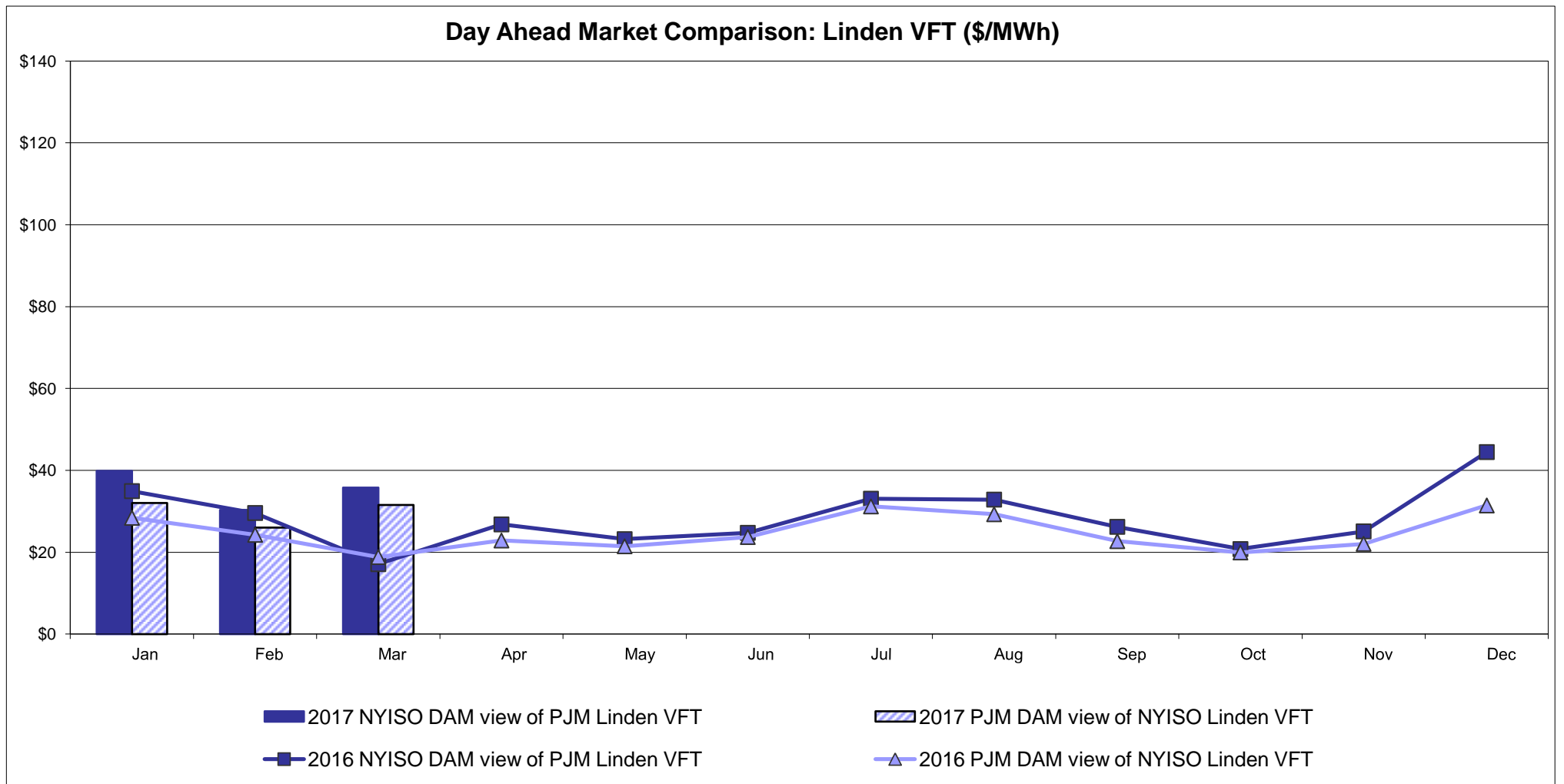


Real Time Market External Zone Comparison - HQ (\$/MWh)

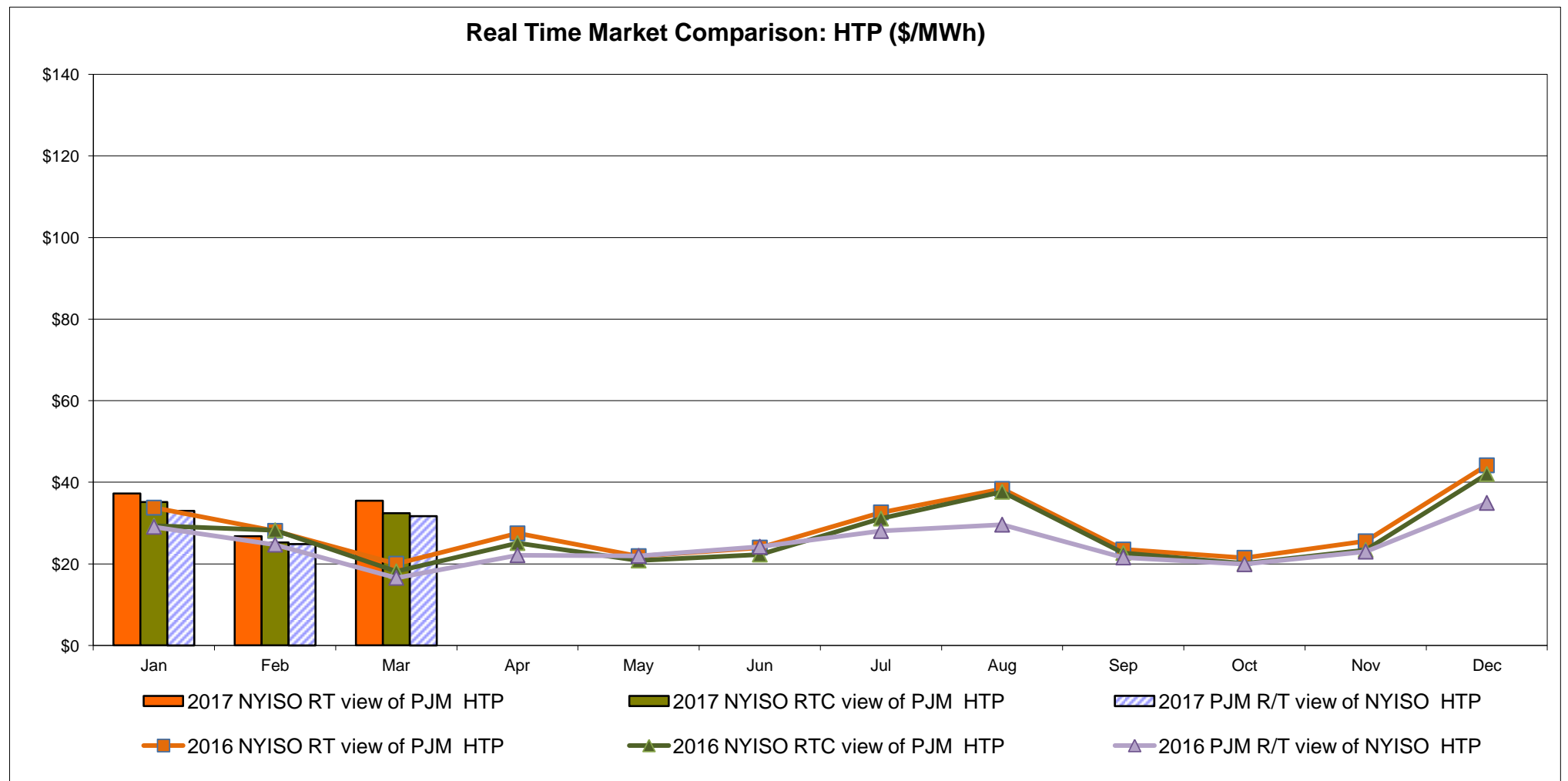
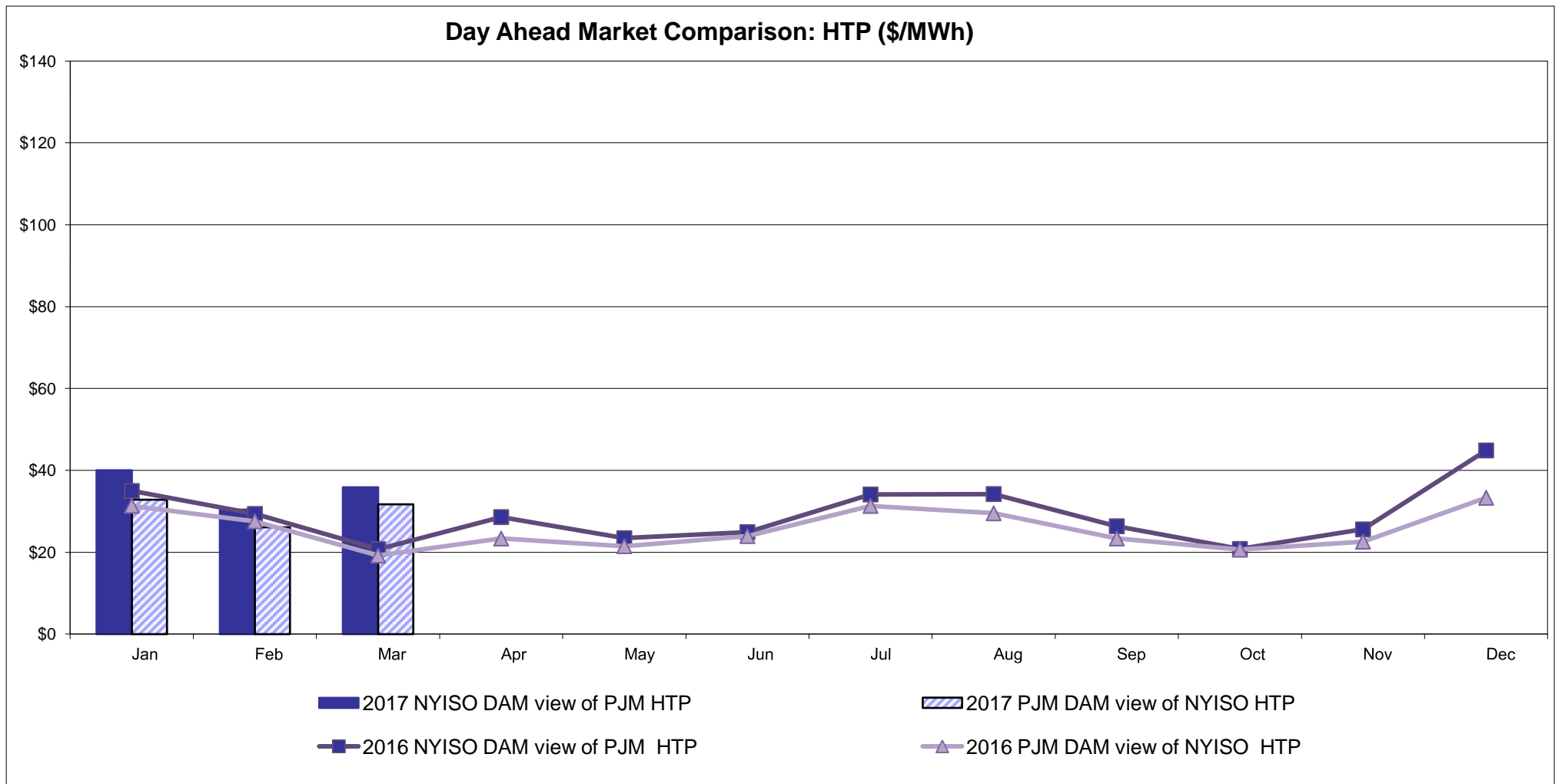


Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

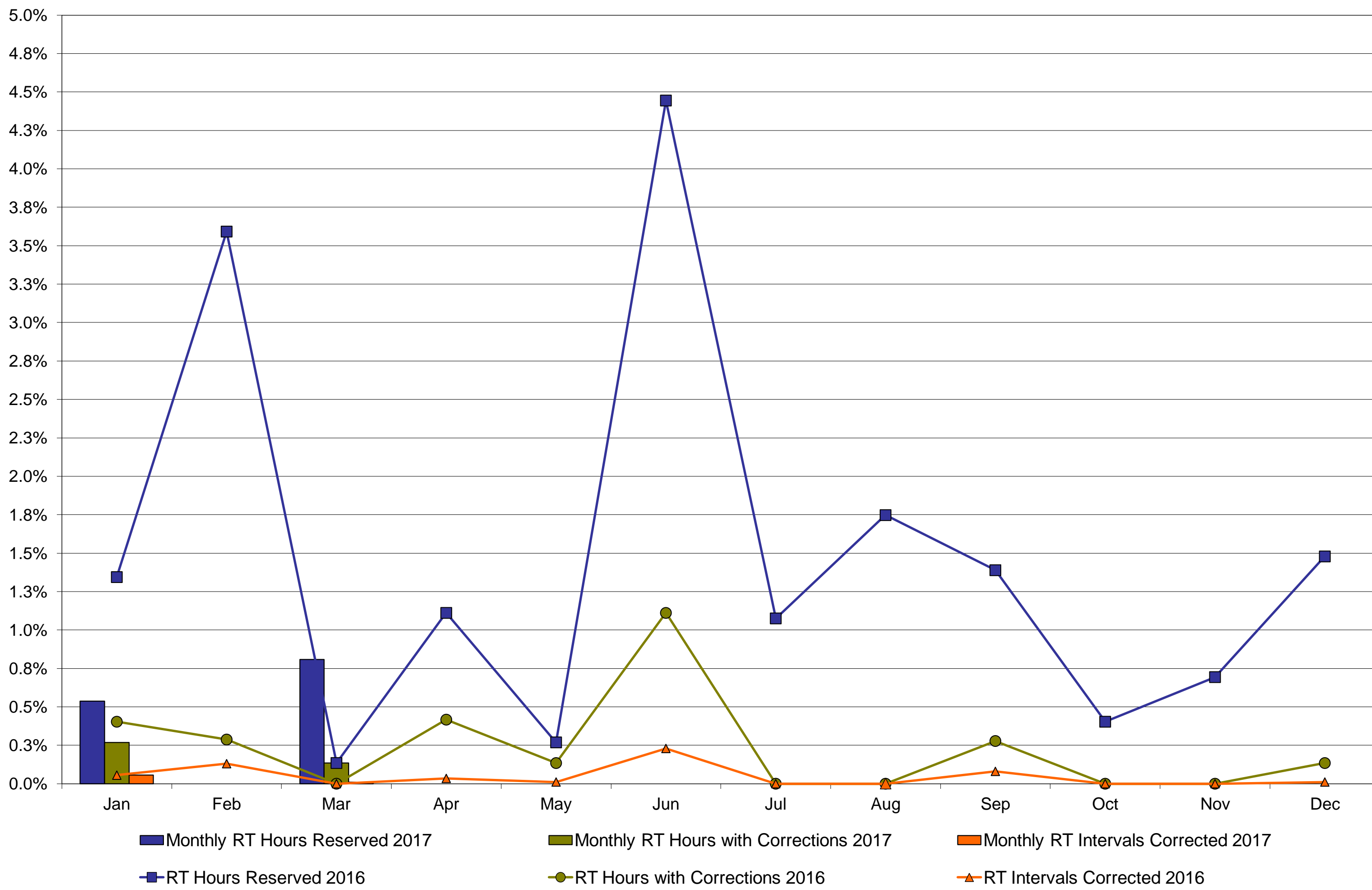


NYISO Real Time Price Correction Statistics

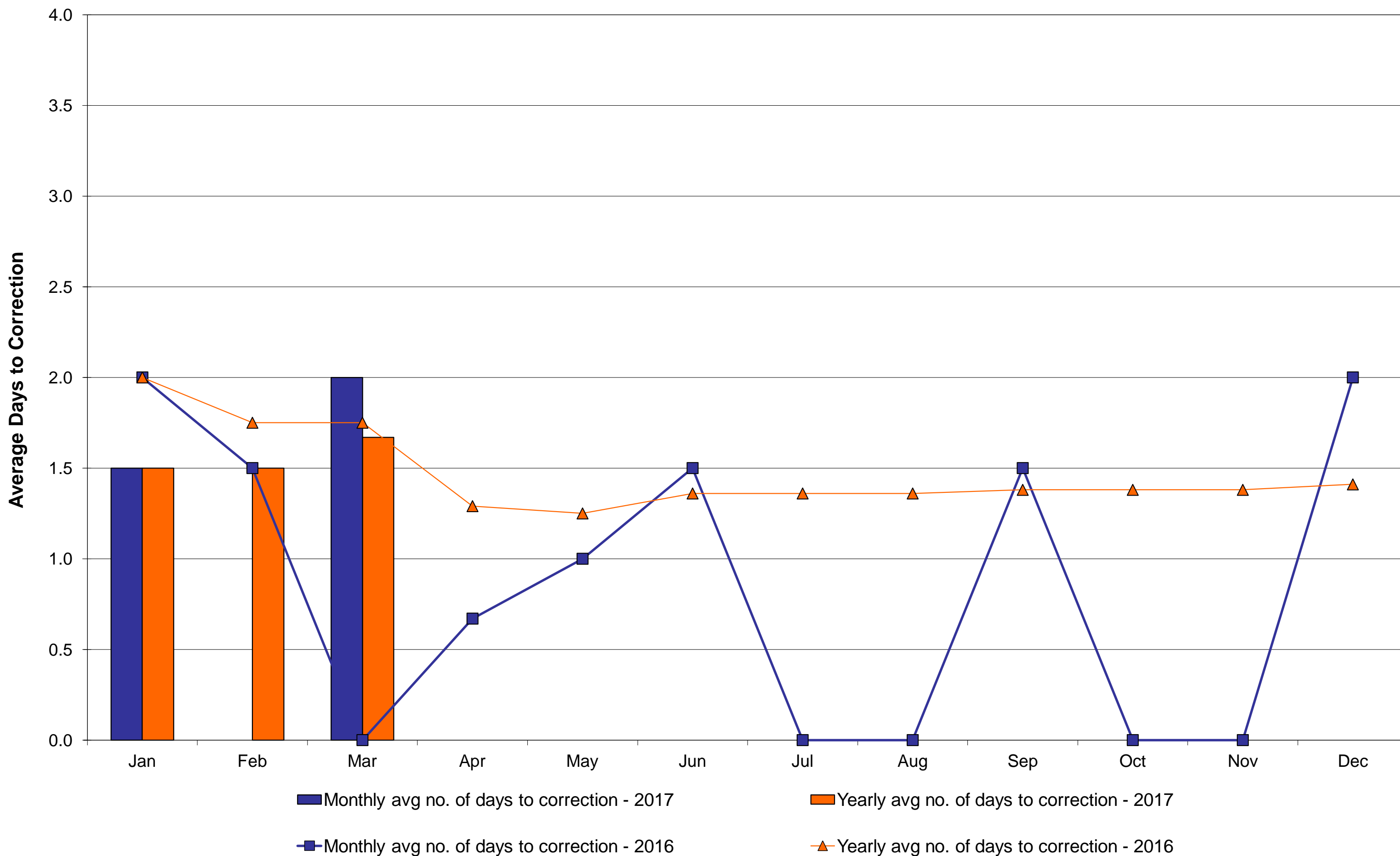
2017		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	2	0	1									
Number of hours	in the month	744	672	743									
% of hours with corrections	in the month	0.27%	0.00%	0.13%									
% of hours with corrections	year-to-date	0.27%	0.14%	0.14%									
Interval Corrections													
Number of intervals corrected	in the month	5	0	1									
Number of intervals	in the month	8,983	8,101	9,026									
% of intervals corrected	in the month	0.06%	0.00%	0.01%									
% of intervals corrected	year-to-date	0.06%	0.03%	0.02%									
Hours Reserved													
Number of hours reserved	in the month	4	0	6									
Number of hours	in the month	744	672	743									
% of hours reserved	in the month	0.54%	0.00%	0.81%									
% of hours reserved	year-to-date	0.54%	0.28%	0.46%									
Days to Correction *													
Avg. number of days to correction	in the month	1.50	0.00	2.00									
Avg. number of days to correction	year-to-date	1.50	1.50	1.67									
Days Without Corrections													
Days without corrections	in the month	29	28	30									
Days without corrections	year-to-date	29	57	87									
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	0	0	2	0	0	1
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours with corrections	in the month	0.40%	0.29%	0.00%	0.42%	0.13%	1.11%	0.00%	0.00%	0.28%	0.00%	0.00%	0.13%
% of hours with corrections	year-to-date	0.40%	0.35%	0.23%	0.28%	0.25%	0.39%	0.33%	0.29%	0.29%	0.26%	0.24%	0.23%
Interval Corrections													
Number of intervals corrected	in the month	5	11	0	3	1	20	0	0	7	0	0	1
Number of intervals	in the month	9,000	8,440	8,995	8,724	8,987	8,725	9,038	9,048	8,713	8,960	8,724	9,034
% of intervals corrected	in the month	0.06%	0.13%	0.00%	0.03%	0.01%	0.23%	0.00%	0.00%	0.08%	0.00%	0.00%	0.01%
% of intervals corrected	year-to-date	0.06%	0.09%	0.06%	0.05%	0.05%	0.08%	0.06%	0.06%	0.06%	0.05%	0.05%	0.05%
Hours Reserved													
Number of hours reserved	in the month	10	25	1	8	2	32	8	13	10	3	5	11
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	1.34%	3.59%	0.13%	1.11%	0.27%	4.44%	1.08%	1.75%	1.39%	0.40%	0.69%	1.48%
% of hours reserved	year-to-date	1.34%	2.43%	1.65%	1.52%	1.26%	1.79%	1.68%	1.69%	1.66%	1.53%	1.46%	1.46%
Days to Correction *													
Avg. number of days to correction	in the month	2.00	1.50	0.00	0.67	1.00	1.50	0.00	0.00	1.50	0.00	0.00	2.00
Avg. number of days to correction	year-to-date	2.00	1.75	1.75	1.29	1.25	1.36	1.36	1.36	1.38	1.38	1.38	1.41
Days Without Corrections													
Days without corrections	in the month	29	27	31	27	30	24	31	31	28	31	30	30
Days without corrections	year-to-date	29	56	87	114	144	168	199	230	258	289	319	349

* Calendar days from reservation date.

Percentage of Real-Time Corrections

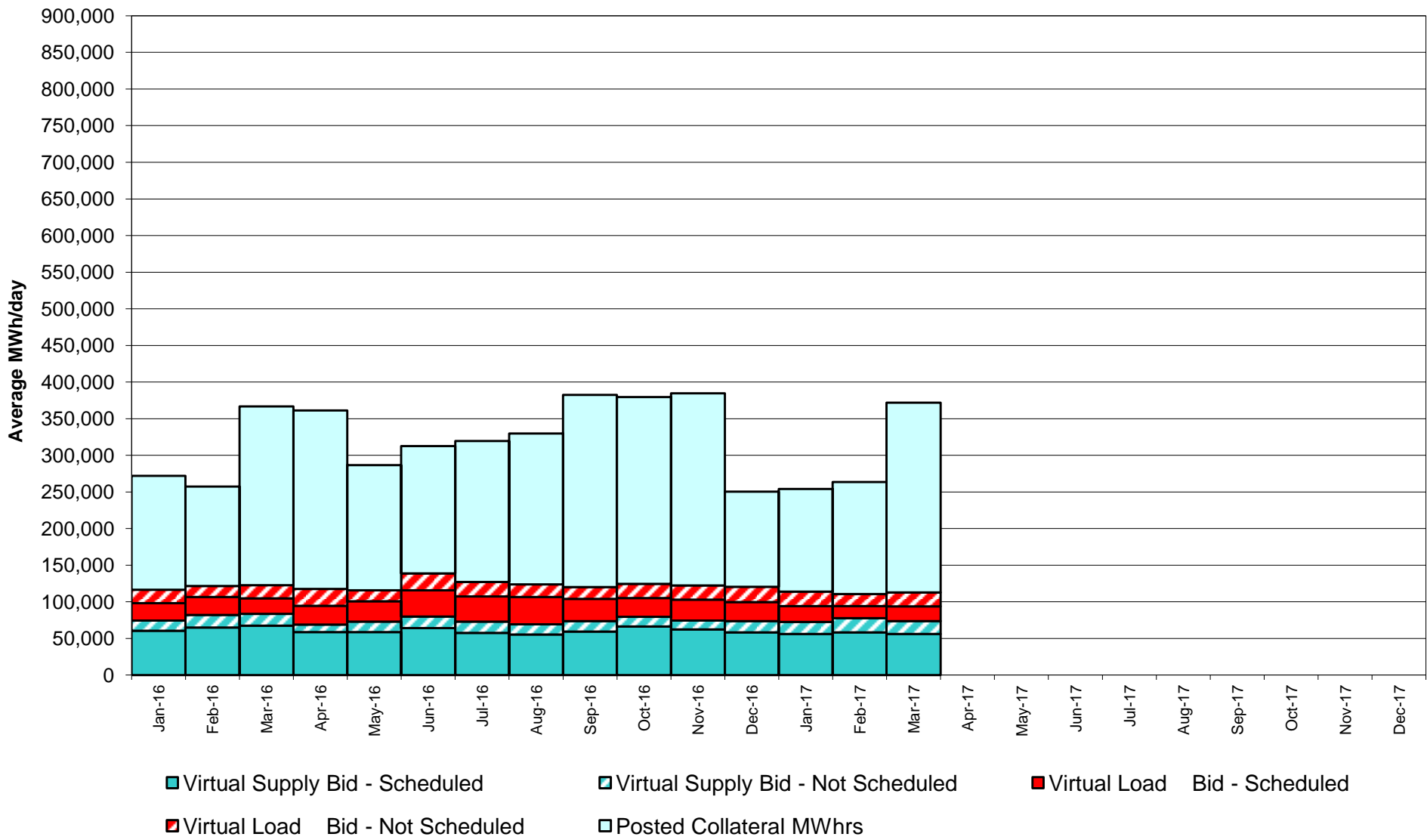


Annual average time period for making Price Corrections (from reservation date) *

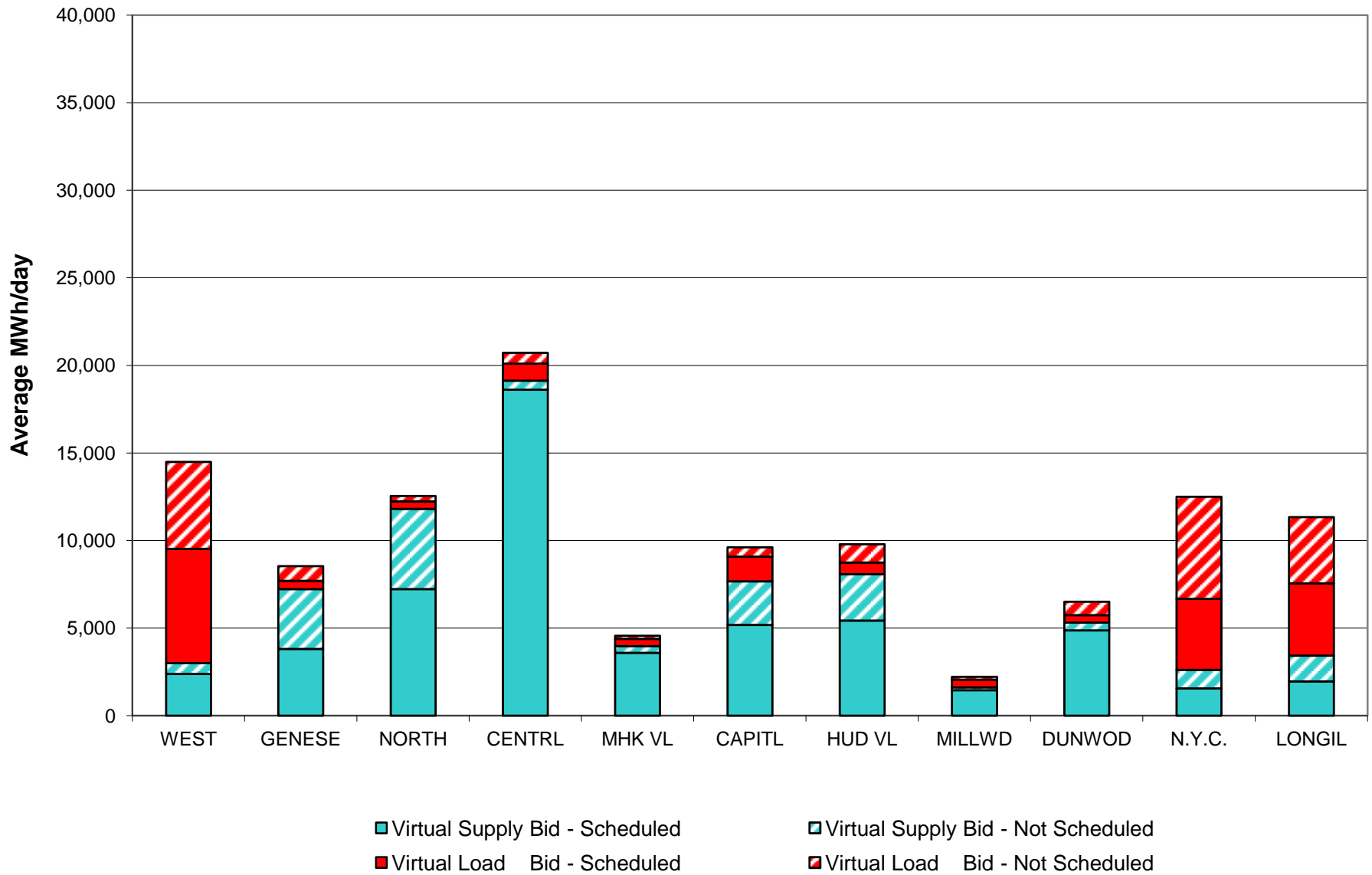


* Calendar days from reservation date.

NYISO Virtual Trading Average MWh per day



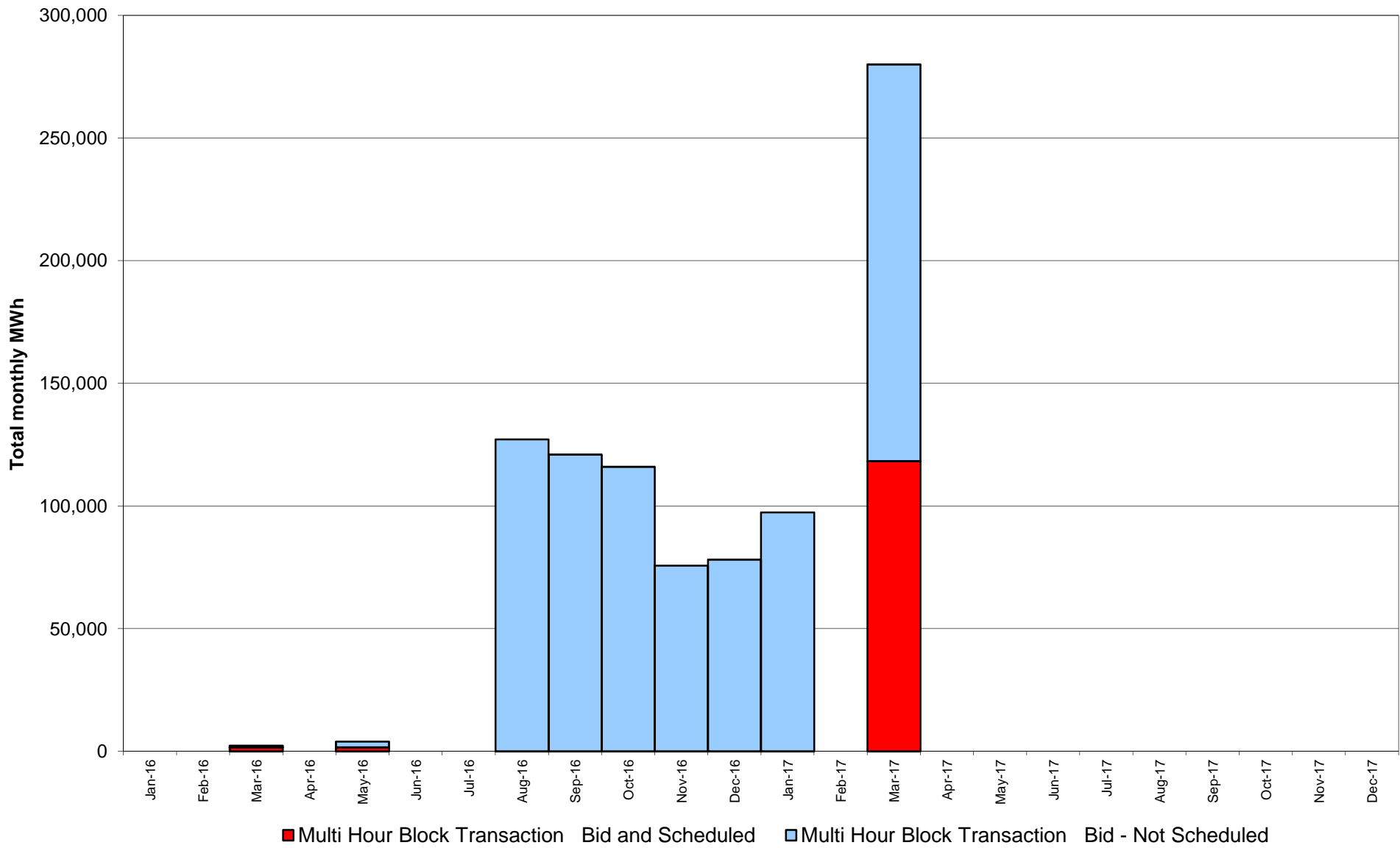
Virtual Load and Supply Zonal Statistics through March 31, 2017



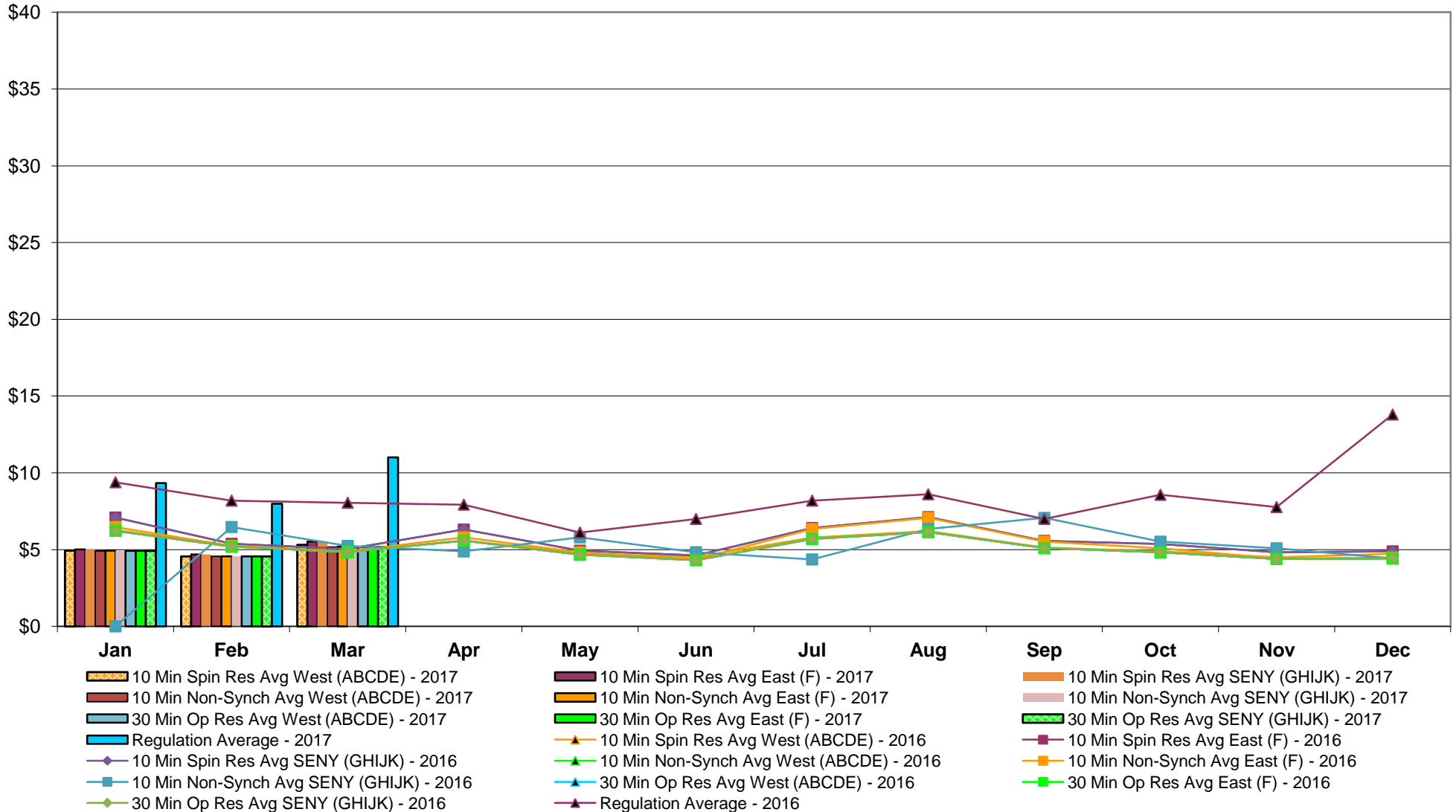
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2017

		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-17	6,094	5,795	2,019	337	MHK VL	Jan-17	566	202	2,022	131	DUNWOD	Jan-17	304	832	5,708	389
	Feb-17	3,771	4,772	3,346	567		Feb-17	422	100	2,459	293		Feb-17	193	585	5,966	424
	Mar-17	6,522	4,960	2,386	616		Mar-17	407	186	3,594	378		Mar-17	436	763	4,871	439
	Apr-17						Apr-17						Apr-17				
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				
GENESE	Jan-17	654	1,282	3,652	2,482	CAPITL	Jan-17	1,291	666	3,990	3,861	N.Y.C.	Jan-17	5,761	5,474	1,543	1,008
	Feb-17	276	600	3,782	3,206		Feb-17	1,115	409	3,432	3,798		Feb-17	4,622	5,309	1,712	1,219
	Mar-17	480	838	3,806	3,419		Mar-17	1,409	528	5,186	2,484		Mar-17	4,052	5,826	1,561	1,058
	Apr-17						Apr-17						Apr-17				
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				
NORTH	Jan-17	655	316	6,415	3,473	HUD VL	Jan-17	911	817	5,317	3,064	LONGIL	Jan-17	3,559	3,788	1,354	1,367
	Feb-17	465	338	7,504	4,006		Feb-17	1,292	915	6,266	3,873		Feb-17	3,341	3,127	1,653	1,667
	Mar-17	426	311	7,227	4,576		Mar-17	659	1,048	5,427	2,652		Mar-17	4,133	3,779	1,958	1,463
	Apr-17						Apr-17						Apr-17				
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				
CENTRL	Jan-17	1,482	455	22,561	196	MILLWD	Jan-17	435	91	1,422	128	NYISO	Jan-17	21,713	19,719	56,001	16,436
	Feb-17	707	177	20,639	320		Feb-17	202	74	1,555	164		Feb-17	16,405	16,406	58,312	19,537
	Mar-17	979	605	18,610	518		Mar-17	454	157	1,452	158		Mar-17	19,956	19,002	56,078	17,759
	Apr-17						Apr-17						Apr-17				
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				

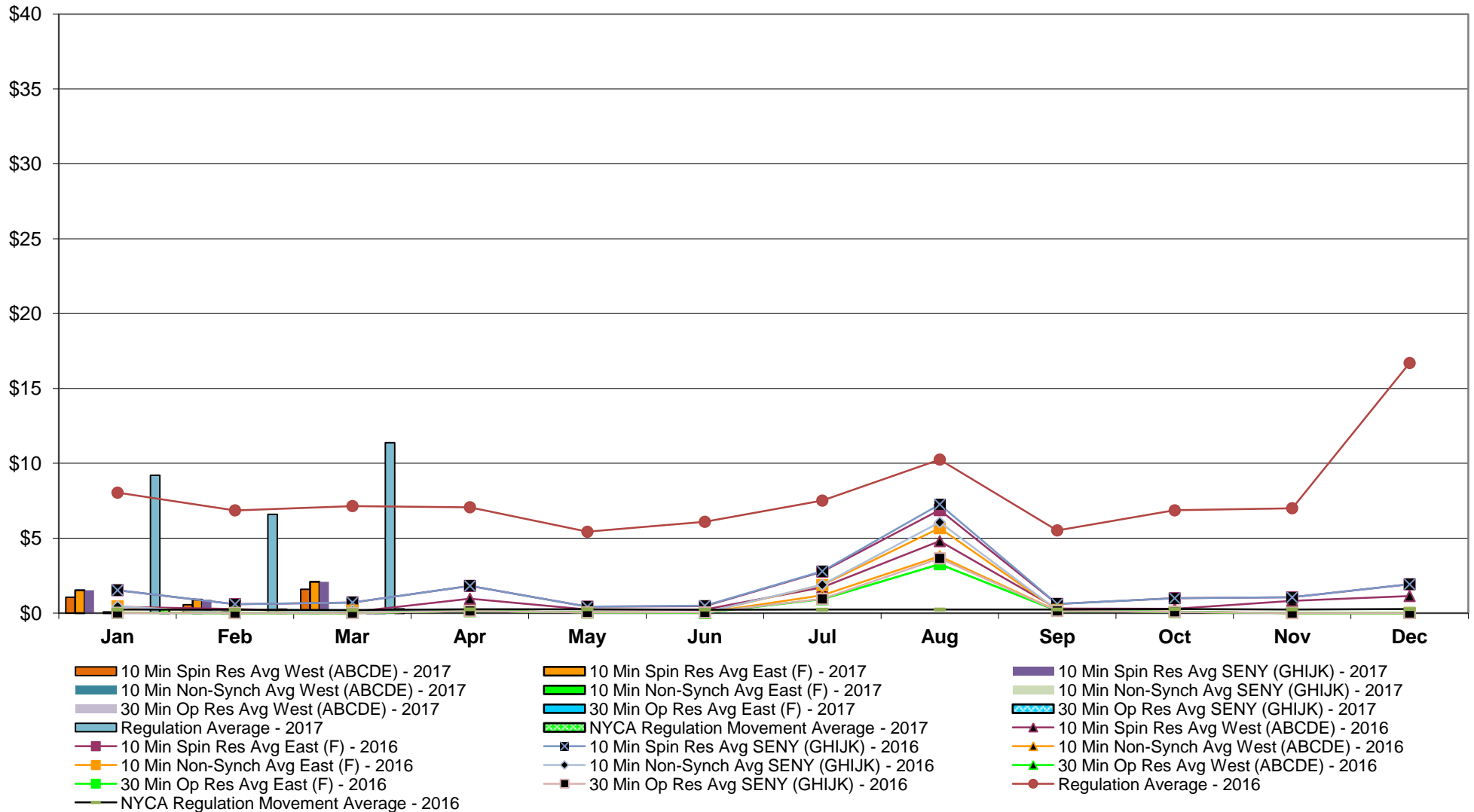
NYISO Multi Hour Block Transactions Monthly Total MWh



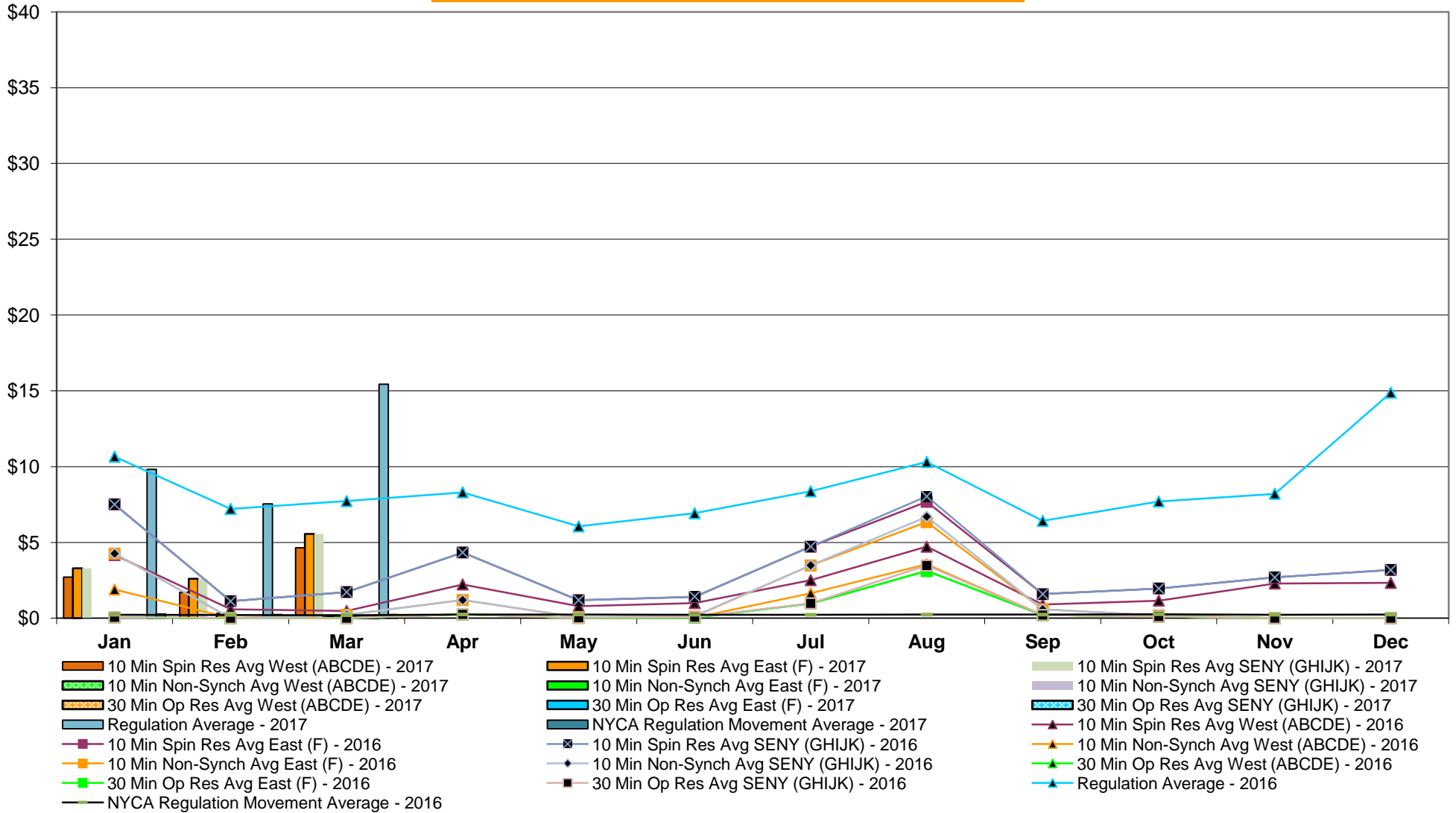
NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2016 - 2017



NYISO Monthly Average Ancillary Service Prices RTC Market 2016 - 2017



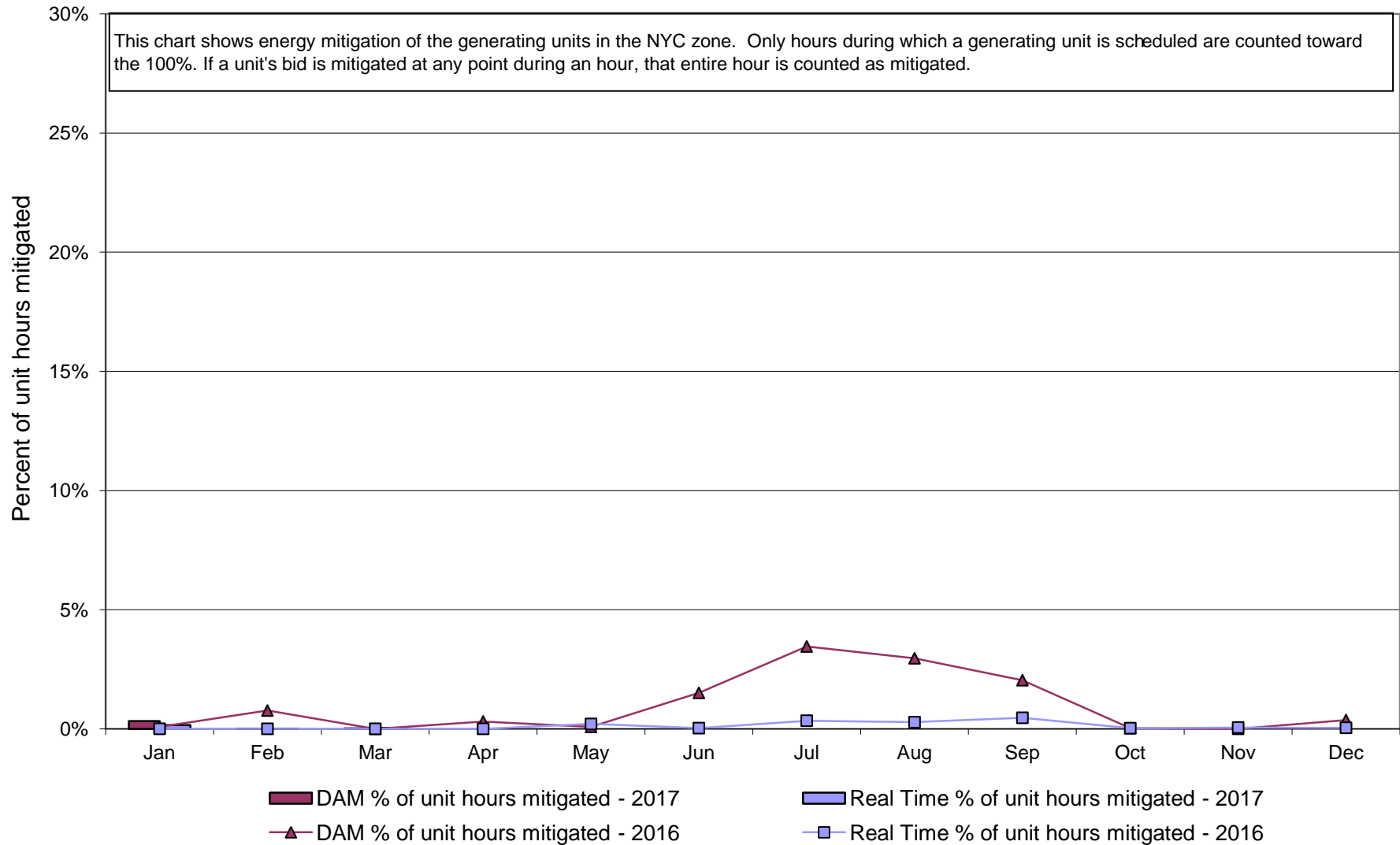
NYISO Monthly Average Ancillary Service Prices Real Time Market 2016 - 2017



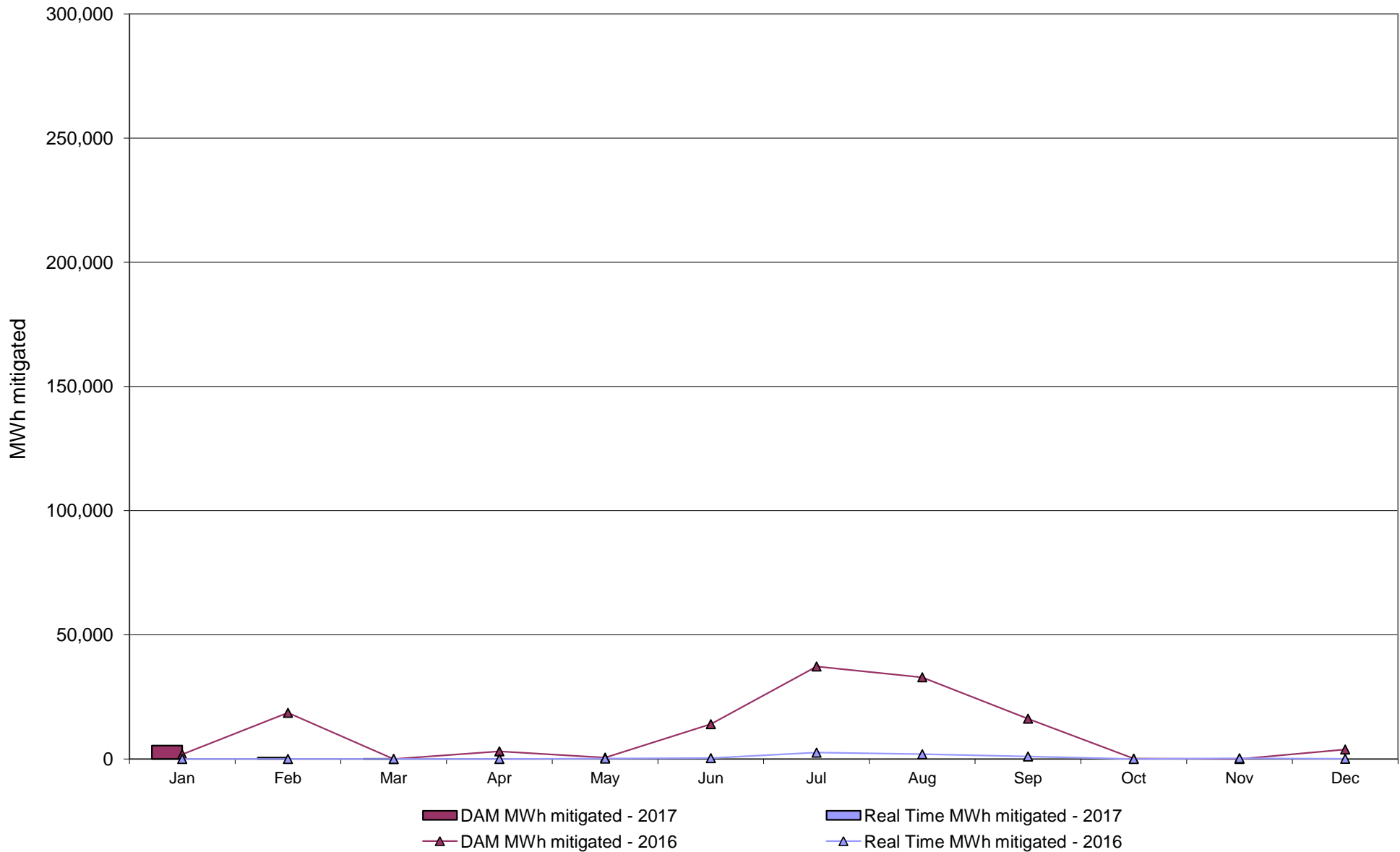
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

2017	<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 SENY (GHIJK)	5.01	4.68	5.53									
10 Min Spin East (F)	5.01	4.68	5.53									
10 Min Spin West (ABCDE)	4.94	4.56	5.31									
10 Min Non Synch SENY (GHIJK)	4.94	4.57	5.20									
10 Min Non Synch East (F)	4.94	4.57	5.20									
10 Min Non Synch West (ABCDE)	4.92	4.56	5.17									
30 Min SENY (GHIJK)	4.92	4.56	5.17									
30 Min East (F)	4.92	4.56	5.17									
30 Min West (ABCDE)	4.92	4.56	5.17									
Regulation	9.34	7.99	11.01									
RTC Market												
10 Min Spin SENY (GHIJK)	1.53	0.89	2.08									
10 Min Spin East (F)	1.53	0.89	2.08									
10 Min Spin West (ABCDE)	1.06	0.55	1.58									
10 Min Non Synch SENY (GHIJK)	0.06	0.06	0.10									
10 Min Non Synch East (F)	0.06	0.06	0.10									
10 Min Non Synch West (ABCDE)	0.00	0.00	0.10									
30 Min SENY (GHIJK)	0.00	0.00	0.10									
30 Min East (F)	0.00	0.00	0.10									
30 Min West (ABCDE)	0.00	0.00	0.10									
Regulation	9.21	6.59	11.37									
NYCA Regulation Movement	0.27	0.24	0.25									
Real Time Market												
10 Min Spin SENY (GHIJK)	3.29	2.61	5.56									
10 Min Spin East (F)	3.29	2.61	5.56									
10 Min Spin West (ABCDE)	2.71	1.71	4.65									
10 Min Non Synch SENY (GHIJK)	0.00	0.31	0.17									
10 Min Non Synch East (F)	0.00	0.31	0.17									
10 Min Non Synch West (ABCDE)	0.00	0.00	0.13									
30 Min SENY (GHIJK)	0.00	0.00	0.12									
30 Min East (F)	0.00	0.00	0.12									
30 Min West (ABCDE)	0.00	0.00	0.12									
Regulation	9.83	7.54	15.44									
NYCA Regulation Movement	0.27	0.24	0.25									
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 SENY (GHIJK)	7.09	5.38	5.04	6.31	4.93	4.62	6.41	7.12	5.57	5.37	4.83	4.89
10 Min Spin East (F)	7.09	5.38	5.04	6.31	4.93	4.62	6.41	7.12	5.57	5.37	4.83	4.89
10 Min Spin West (ABCDE)	6.28	5.25	4.84	5.60	4.77	4.52	5.78	6.20	5.14	4.89	4.50	4.73
10 Min Non Synch SENY (GHIJK)	6.47	5.25	4.88	5.80	4.83	4.36	6.34	7.07	5.52	5.09	4.43	4.49
10 Min Non Synch East (F)	6.47	5.25	4.88	5.80	4.83	4.36	6.34	7.07	5.52	5.09	4.43	4.49
10 Min Non Synch West (ABCDE)	6.23	5.20	4.84	5.58	4.68	4.32	5.72	6.15	5.10	4.82	4.39	4.43
30 Min SENY (GHIJK)	6.23	5.20	4.84	5.58	4.67	4.32	5.70	6.15	5.10	4.82	4.39	4.43
30 Min East (F)	6.23	5.20	4.84	5.58	4.67	4.32	5.70	6.15	5.10	4.82	4.39	4.43
30 Min West (ABCDE)	6.23	5.20	4.84	5.58	4.67	4.32	5.70	6.15	5.10	4.82	4.39	4.43
Regulation	9.39	8.19	8.05	7.93	6.11	7.00	8.19	8.61	7.00	8.57	7.77	13.80
RTC Market												
10 Min Spin SENY (GHIJK)	1.53	0.59	0.71	1.81	0.43	0.49	2.79	7.26	0.61	0.99	1.05	1.92
10 Min Spin East (F)	1.53	0.59	0.71	1.81	0.43	0.46	2.77	6.88	0.61	0.99	1.05	1.92
10 Min Spin West (ABCDE)	0.42	0.26	0.08	0.95	0.23	0.24	1.72	4.80	0.30	0.29	0.82	1.14
10 Min Non Synch SENY (GHIJK)	0.45	0.00	0.17	0.14	0.05	0.05	1.89	6.06	0.21	0.09	0.00	0.00
10 Min Non Synch East (F)	0.45	0.00	0.17	0.14	0.05	0.02	1.87	5.67	0.21	0.09	0.00	0.00
10 Min Non Synch West (ABCDE)	0.04	0.00	0.00	0.14	0.04	0.02	1.18	3.80	0.16	0.08	0.00	0.00
30 Min SENY (GHIJK)	0.01	0.00	0.00	0.14	0.04	0.04	0.94	3.65	0.15	0.08	0.00	0.00
30 Min East (F)	0.01	0.00	0.00	0.14	0.04	0.02	0.93	3.27	0.15	0.08	0.00	0.00
30 Min West (ABCDE)	0.01	0.00	0.00	0.14	0.04	0.02	0.93	3.27	0.15	0.08	0.00	0.00
Regulation	8.04	6.86	7.15	7.07	5.43	6.09	7.51	10.25	5.52	6.86	7.00	16.70
NYCA Regulation Movement	0.23	0.21	0.20	0.25	0.25	0.23	0.23	0.24	0.24	0.26	0.24	0.26
Real Time Market												
10 Min Spin SENY (GHIJK)	7.51	1.12	1.73	4.34	1.19	1.43	4.73	8.04	1.59	1.96	2.69	3.18
10 Min Spin East (F)	7.51	1.12	1.73	4.34	1.19	1.40	4.72	7.68	1.59	1.96	2.69	3.18
10 Min Spin West (ABCDE)	4.17	0.58	0.48	2.23	0.79	1.00	2.51	4.72	0.90	1.16	2.29	2.33
10 Min Non Synch SENY (GHIJK)	4.26	0.00	0.22	1.20	0.06	0.15	3.49	6.70	0.59	0.18	0.00	0.00
10 Min Non Synch East (F)	4.26	0.00	0.22	1.20	0.06	0.11	3.48	6.34	0.59	0.18	0.00	0.00
10 Min Non Synch West (ABCDE)	1.89	0.00	0.00	0.26	0.03	0.04	1.65	3.56	0.21	0.11	0.00	0.00
30 Min SENY (GHIJK)	0.06	0.00	0.00	0.25	0.03	0.07	0.98	3.48	0.21	0.11	0.00	0.00
30 Min East (F)	0.06	0.00	0.00	0.25	0.03	0.04	0.97	3.12	0.21	0.11	0.00	0.00
30 Min West (ABCDE)	0.06	0.00	0.00	0.25	0.03	0.04	0.97	3.12	0.21	0.11	0.00	0.00
Regulation	10.66	7.21	7.73	8.30	6.06	6.92	8.37	10.31	6.42	7.70	8.21	14.88
NYCA Regulation Movement	0.23	0.22	0.20	0.25	0.25	0.23	0.23	0.24	0.24	0.26	0.23	0.24

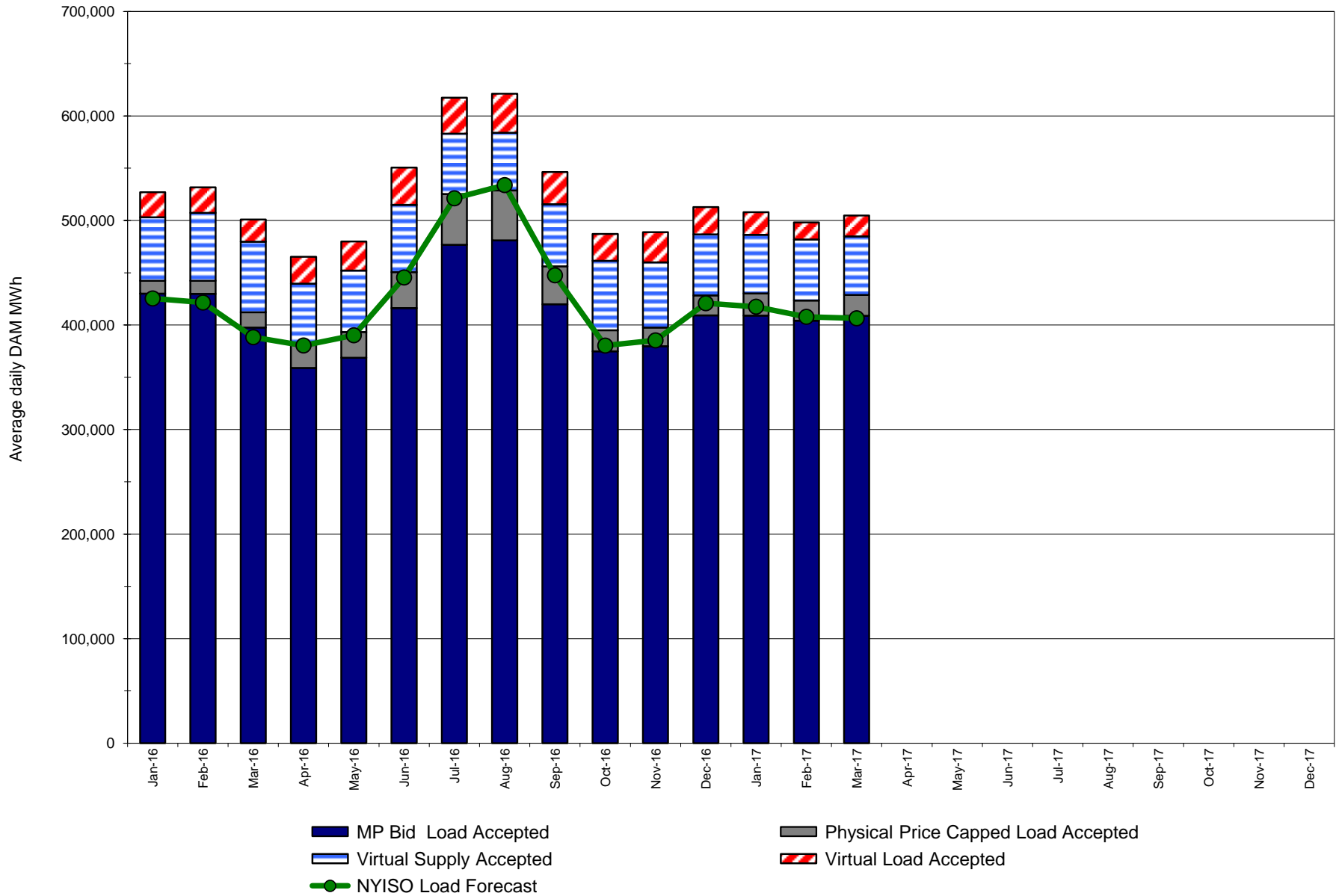
NYISO In City Energy Mitigation - AMP (NYC Zone) 2016 - 2017 Percentage of committed unit-hours mitigated



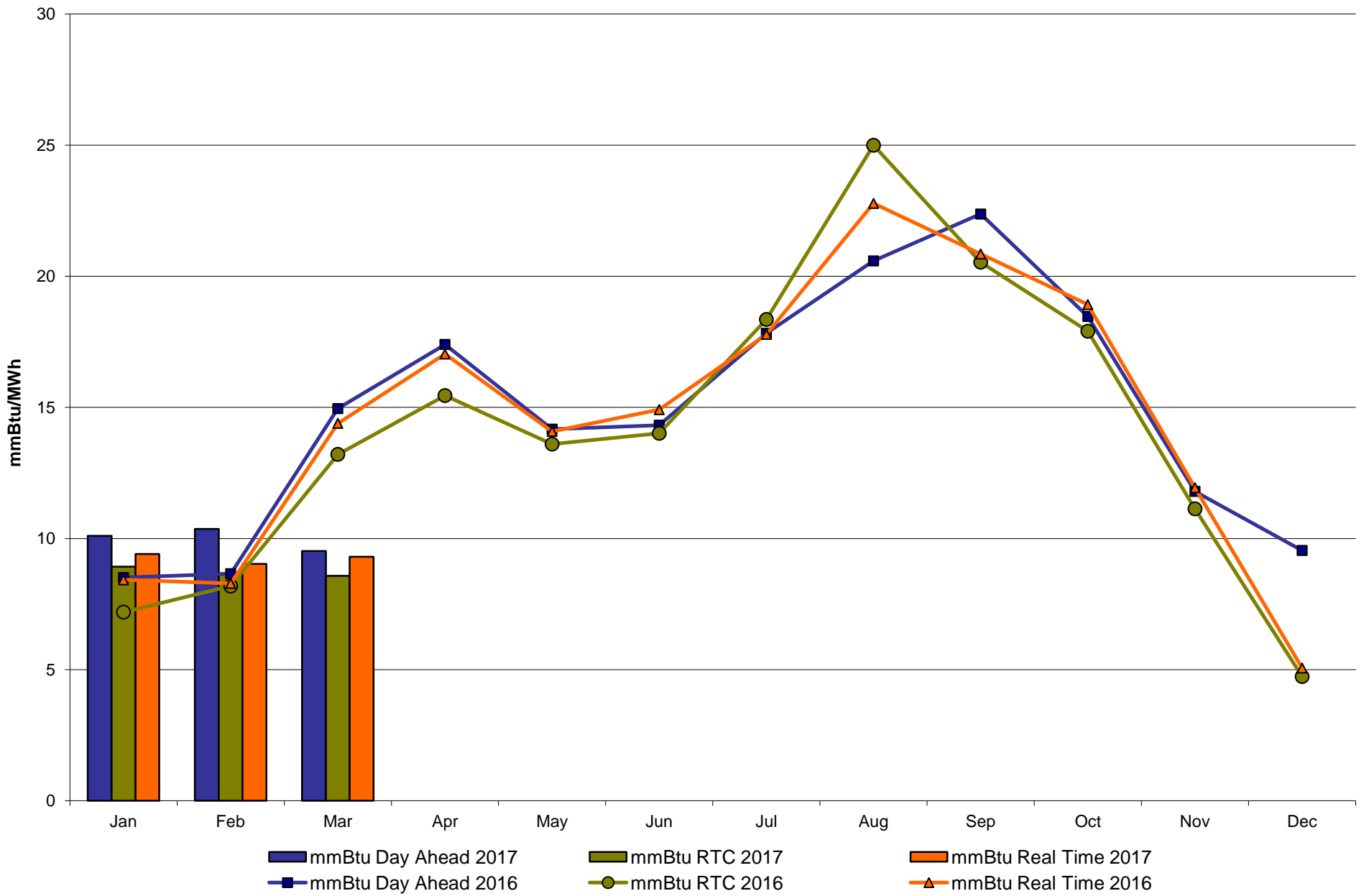
NYISO In City Energy Mitigation (NYC Zone) 2016 - 2017
Monthly megawatt hours mitigated



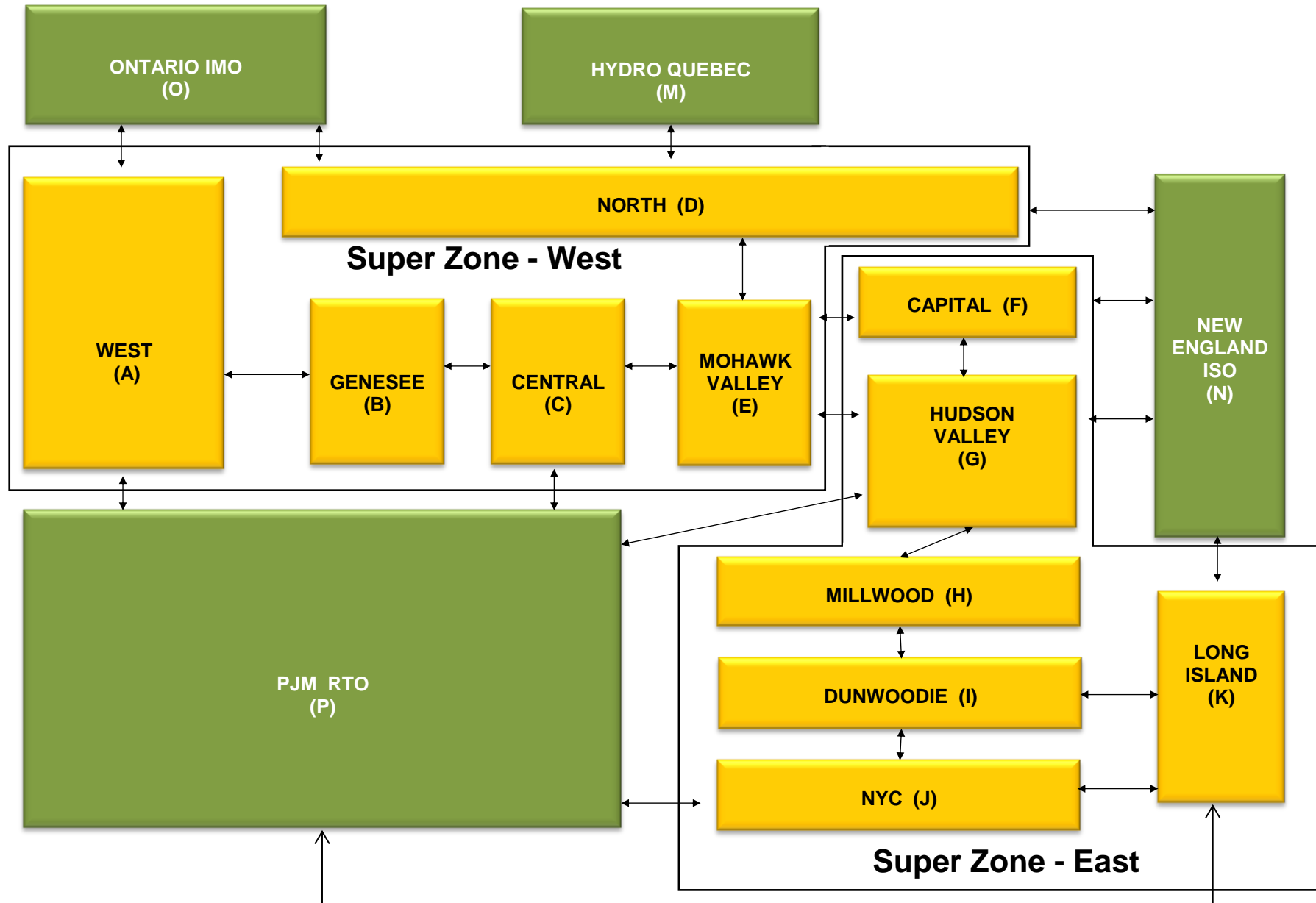
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2016-2017



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

The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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Summary Description of Upcoming Regulatory Compliance Filings, Recently Submitted Filings and Issued Orders on NYISO Matters

Upcoming Compliance Filings

Filing Due Date	Upcoming Compliance Filings (Description)	Docket Number
05/08/2017	NYISO compliance filing re: 11/17/16 final rule (Order No. 831) regarding offer caps in RTO and ISO markets	RM16-5-000

Recently Issued Orders

Filing Date	Filing Summary (Order Issued)	Docket Number	Order Date	Order Summary
01/31/2017	NYISO and PJM joint 205 filing re: revisions to the Joint Operating Agreement addressing Interchange Scheduling and Market-to-Market Coordination on the ABC Interface and JK Interface after the 1,000 MW Wheel concludes	ER17-905-000	03/31/2017	FERC order accepted (effective 05/01/2017, as requested) and suspended the filing, subject to refund and further FERC order
02/02/2017	NYISO compliance filing re: notice of the effective date for the ICAP Demand Curve reset process revisions	ER16-1751-001	03/24/2017	FERC letter order accepted notice of effective date (i.e., 02/16/2017), as requested
02/06/2017	NYISO 205 filing re: amend MST 23.4.5.5 governing the circumstances under which a Market Party will be deemed to be a Pivotal Supplier in a Mitigated Capacity Zone	ER17-941-000	03/24/2017	FERC letter order accepted revisions effective 04/07/2017, as requested
02/14/2017	NYISO compliance filing re: notice of effective date for revised fixed block unit pricing logic	ER17-549-001	03/28/2017	FERC letter order accepted notice of effective date (i.e., 02/28/2017), as requested
03/13/2017	NYISO 205 filing re: OATT and Services Tariff revisions to implement (i) a monthly balance-of-period Transmission Congestion Contract ("TCC") auction structure; and (ii) enhancements to the credit requirements for TCCs	ER17-1167-000	04/14/2017	FERC order accepted filing subject to compliance filings to specify effective dates

FINAL

Recently Submitted Filings

Filing Date	Filing Summary	Docket Number
03/21/2017	NYISO 205 filing re: enhancements to the Day-Ahead Margin Assurance Payment program rules	ER17-1279-000
03/22/2017	IRC late filed motion to intervene and supporting comments re: the NERC compliance monitoring and enforcement program ("CMEP") filing	RR15-2-000
03/27/2017	NYISO filing re: motion to terminate annual informational reporting obligation concerning broader regional markets	ER08-1281-006
03/28/2017	NYISO filing re: annual compliance report on unreserved use and late study penalty assessments and distributions	OA08-109-000
03/29/2017	NYISO and PJM joint filing re: out of time motion to intervene and answer to the Linden VFT motion concerning the NYISO and PJM joint filing addressing interchange scheduling and the implementation of M2M coordination	ER17-905-000
03/31/2017	NYISO filing re: annual submission of FERC Form 715 – Annual Transmission Planning and Evaluation Report (CEII status)	No Docket No.
03/31/2017	NYISO courtesy filing to the NYSPSC re: annual submission of FERC Form 715 – Annual Transmission Planning and Evaluation Report (CEII status)	No Docket No.
03/31/2017	NYISO motion to intervene and protest re: PJM's proposed external capacity enhancements to its OATT and Reliability Assurance Agreement	ER17-1138-000
03/31/2017	NYISO compliance filing re: demand response compensation provisions in response to FERC's 01/30/2017 order	ER11-4388-001, <i>et. al.</i>
04/05/2017	NYISO filing re: notification of emergency state condition in the NYCA on 04/04/2017	EY17-1-000
04/06/2017	NYISO filing to the EPA re: comments on the 2015 Ozone National Ambient Air Quality Standard Preliminary Transport Data	EPA-HQ-OAR-2016-0751
04/10/2017	NYISO filing re :comments in response to the NOPR on Uplift Cost Allocation and Transparency in Markets Operated by RTOs and ISOs	RM17-2-000
04/10/2017	Joint NYISO, ISO-NE, IESO and ERCOT comments re: NOPR - Reliability Standard PRC-012-2 – Remedial Action Schemes	RM16-20-000
04/13/2017	NYISO filing re: comments in response to the NOPR on reform of generator interconnection procedures and agreements	RM17-8-000
04/14/2017	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 03/31/2017	PSC Matter No. 10-02007