

# NYISO CEO/COO Report

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**Bradley Jones**

President & Chief Executive Officer

**Rick Gonzales**

Senior Vice President & Chief Operating Officer

## Management Committee Meeting:

October 25, 2017, Rensselaer, NY



# NYISO CEO/COO Report

## CEO Report

## COO Report

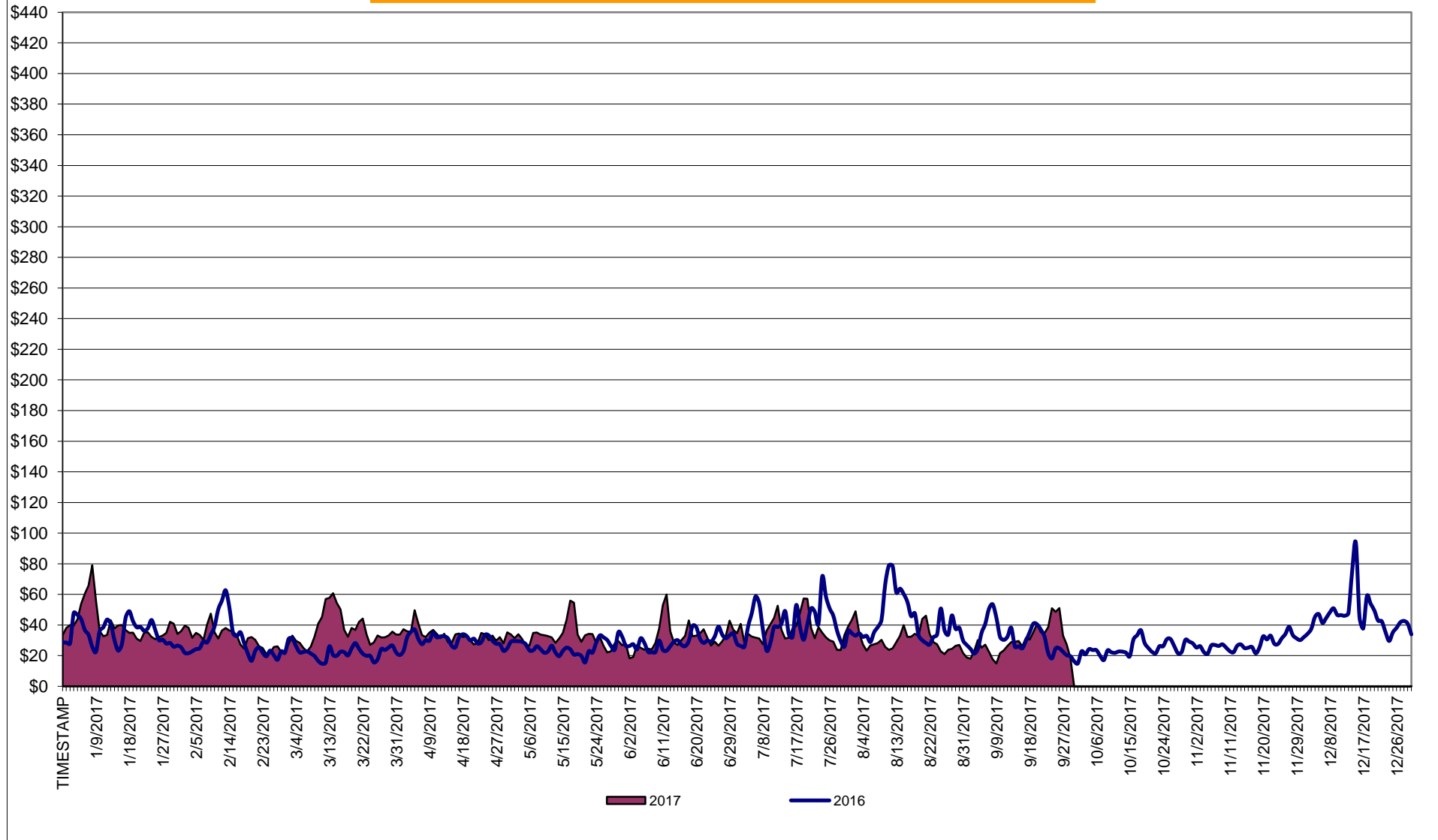
- Market Performance Highlights – For Information Only
- Operations Performance Metrics Monthly Report

# Market Performance Highlights

## September 2017

- LBMP for September is \$29.57/MWh; lower than \$30.57/MWh in August 2017 and \$30.89/MWh in September 2016.
  - Day Ahead Load Weighted LBMPs are lower and Real Time Load Weighted LBMPs are higher compared to August.
- September 2017 average year-to-date monthly cost of \$35.34/MWh is a 3% increase from \$34.31/MWh in September 2016.
- Average daily sendout is 437 GWh/day in September; lower than 477 GWh/day in August 2017 and 458 GWh/day in September 2016.
- Natural gas prices and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.27/MMBtu, up from \$2.16/MMBtu in August.
  - Natural gas prices are up 72.2% year-over-year.
  - Jet Kerosene Gulf Coast was \$13.40/MMBtu, up from \$11.53/MMBtu in August.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$12.80/MMBtu, up from \$11.65/MMBtu in August.
  - Distillate prices are up 32.3% year-over-year.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.34)/MWh; lower than (\$0.19)/MWh in August.
    - Local Reliability Share is \$0.16/MWh, higher than \$0.12/MWh in August.
    - Statewide Share is (\$0.50)/MWh, lower than (\$0.31)/MWh in August.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than August.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
**2016 Annual Average \$34.28/MWh**  
**September 2016 YTD Average \$34.31/MWh**  
**September 2017 YTD Average \$35.34/MWh**

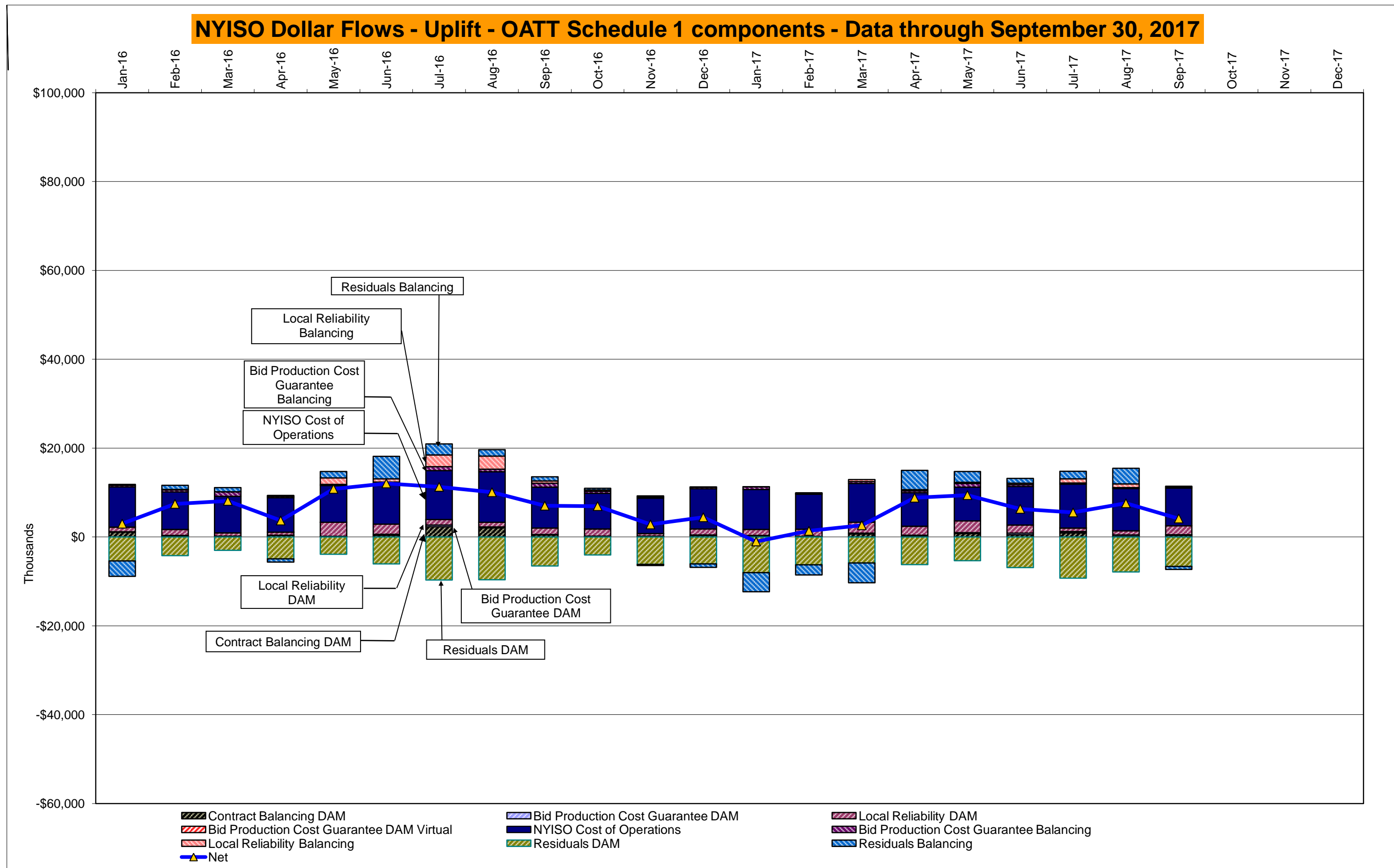


\* Excludes ICAP payments.

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

<b>2017</b>	<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	31.06	31.74	31.76	35.84	30.57	29.57			
NTAC	0.66	1.11	0.86	1.05	0.79	0.62	0.87	0.59	0.62			
Reserve	0.70	0.67	0.74	0.70	0.61	0.55	0.48	0.44	0.47			
Regulation	0.14	0.12	0.13	0.17	0.16	0.13	0.10	0.10	0.11			
NYISO Cost of Operations	0.65	0.65	0.65	0.65	0.62	0.63	0.63	0.63	0.63			
FERC Fee Recovery	0.09	0.10	0.10	0.12	0.10	0.09	0.07	0.08	0.09			
Uplift	(0.73)	(0.54)	(0.46)	0.12	0.10	(0.37)	(0.43)	(0.19)	(0.34)			
Uplift: Local Reliability Share	0.10	0.13	0.21	0.20	0.24	0.15	0.11	0.12	0.16			
Uplift: Statewide Share	(0.83)	(0.67)	(0.67)	(0.08)	(0.13)	(0.52)	(0.54)	(0.31)	(0.50)			
Voltage Support and Black Start	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38			
<b>Avg Monthly Cost</b>	41.96	33.44	37.38	34.26	34.52	33.80	37.94	32.60	31.54			
 Avg YTD Cost	41.96	38.02	37.81	37.05	36.54	36.01	36.35	35.80	35.34			
 TSA \$ per NYC MWh	0.00	0.00	0.00	0.08	0.12	0.56	0.42	0.23	0.00			
 <b>2016</b>	<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
<b>Avg Monthly Cost</b>	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
 <b>2015</b>	<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
<b>Avg Monthly Cost</b>	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: 10/6/2017 10:38 AM



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

<u>2017</u>	<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>
<b><u>Day Ahead Market MWh</u></b>	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695			
DAM LSE Internal LBMP Energy Sales	57%	57%	55%	54%	58%	60%	62%	61%	57%			
DAM External TC LBMP Energy Sales	2%	2%	1%	1%	1%	1%	1%	1%	1%			
DAM Bilateral - Internal Bilaterals	32%	32%	34%	35%	33%	31%	29%	29%	32%			
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	5%	6%	4%	5%	4%	5%	5%			
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%			
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	3%	3%	4%			
<b><u>Balancing Energy Market MWh</u></b>	-256,448	-407,284	-509,053	-466,426	-666,048	-564,312	-747,473	-853,898	-633,990			
Balancing Energy LSE Internal LBMP Energy Sales	-157%	-132%	-148%	-115%	-120%	-114%	-100%	-87%	-76%			
Balancing Energy External TC LBMP Energy Sales	64%	39%	44%	22%	28%	23%	18%	13%	12%			
Balancing Energy Bilateral - Internal Bilaterals	15%	8%	12%	5%	1%	4%	3%	2%	3%			
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	4%	0%	0%	0%	0%	0%	0%	0%			
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	10%	7%	5%	4%	3%	3%	1%	1%	1%			
Balancing Energy Bilateral - Wheel Through Bilaterals	-32%	-26%	-13%	-15%	-12%	-16%	-22%	-29%	-40%			
<b><u>Transactions Summary</u></b>												
LBMP	58%	57%	55%	54%	58%	60%	62%	61%	58%			
Internal Bilaterals	33%	34%	36%	37%	34%	32%	30%	31%	33%			
Import Bilaterals	5%	5%	5%	6%	4%	5%	5%	5%	5%			
Export Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%	2%			
Wheels Through	2%	2%	2%	2%	2%	1%	2%	2%	2%			
<b><u>Market Share of Total Load</u></b>												
Day Ahead Market	101.8%	103.3%	103.8%	104.0%	105.4%	104.1%	104.7%	105.7%	104.7%			
Balancing Energy +	-1.8%	-3.3%	-3.8%	-4.0%	-5.4%	-4.1%	-4.7%	-5.7%	-4.7%			
Total MWH	13,878,571	12,157,922	13,474,812	11,595,049	12,300,933	13,841,868	15,758,328	15,095,029	13,466,705			
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437			

<u>2016</u>	<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>
<b><u>Day Ahead Market MWh</u></b>	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%
<b><u>Balancing Energy Market MWh</u></b>	-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%
<b><u>Transactions Summary</u></b>												
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%
<b><u>Market Share of Total Load</u></b>												
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>
<b><u>DAY AHEAD LBMP</u></b>												
Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05			
Standard Deviation	\$13.20	\$7.97	\$11.95	\$7.66	\$9.47	\$12.37	\$13.51	\$10.60	\$12.09			
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95			
<b><u>RTC LBMP</u></b>												
Price *	\$32.87	\$24.09	\$28.86	\$26.19	\$26.19	\$26.40	\$30.84	\$25.26	\$27.97			
Standard Deviation	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14			
Load Weighted Price **	\$33.96	\$24.81	\$29.67	\$26.98	\$28.10	\$28.39	\$33.13	\$26.65	\$30.98			
<b><u>REAL TIME LBMP</u></b>												
Price *	\$34.61	\$25.14	\$31.21	\$29.61	\$26.56	\$26.16	\$29.47	\$24.36	\$26.08			
Standard Deviation	\$18.20	\$14.21	\$25.02	\$39.82	\$26.11	\$19.00	\$20.25	\$14.03	\$25.72			
Load Weighted Price **	\$35.80	\$25.84	\$32.21	\$30.81	\$28.64	\$28.67	\$32.11	\$25.95	\$29.13			
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437			

### **NYISO Markets 2016 Energy Statistics**

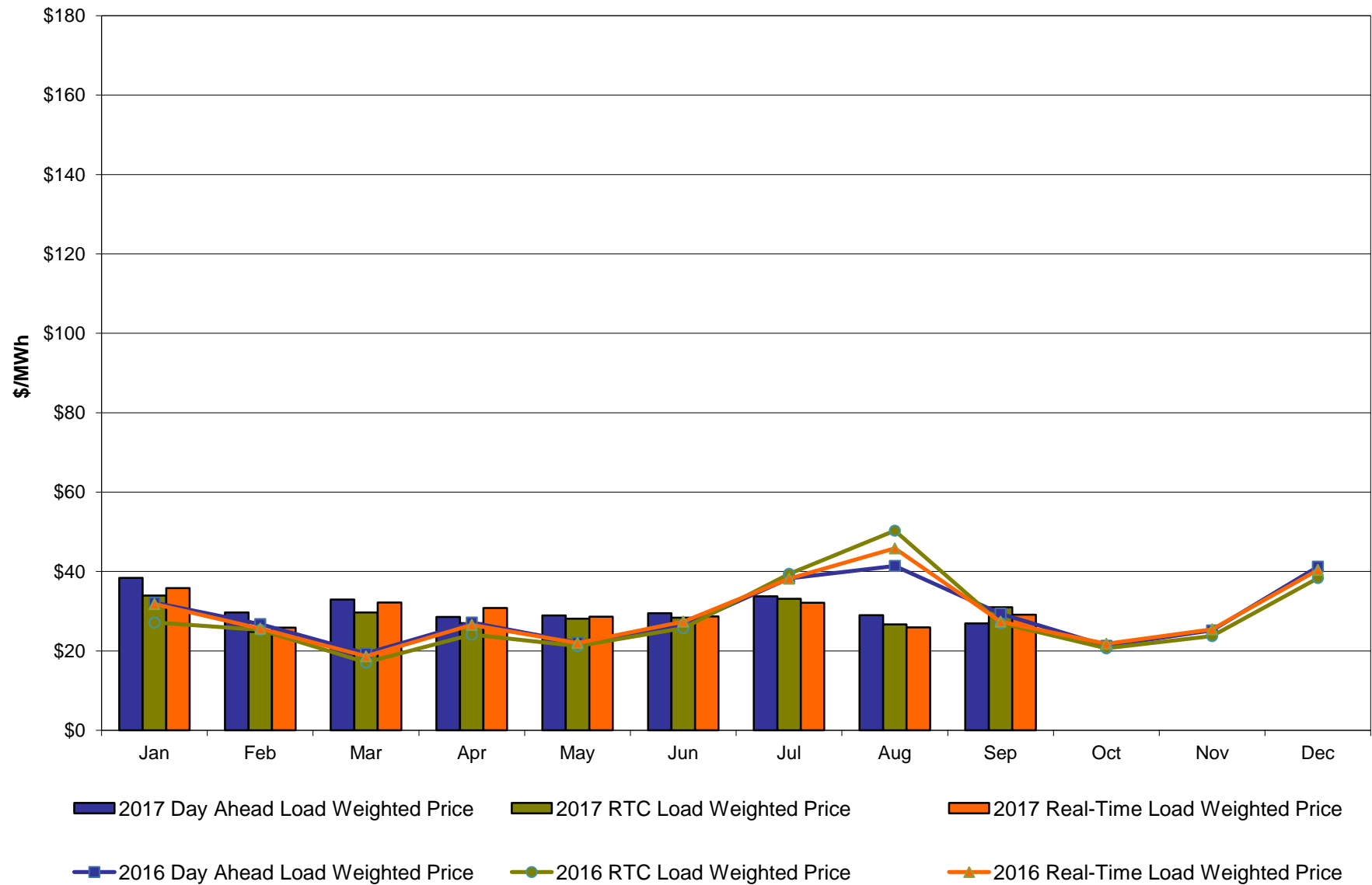
	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>DAY AHEAD LBMP</u></b>												
Price *	\$31.01	\$25.76	\$18.63	\$26.39	\$21.07	\$24.83	\$35.24	\$38.25	\$27.15	\$20.37	\$24.35	\$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
<b><u>RTC LBMP</u></b>												
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
<b><u>REAL TIME LBMP</u></b>												
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**

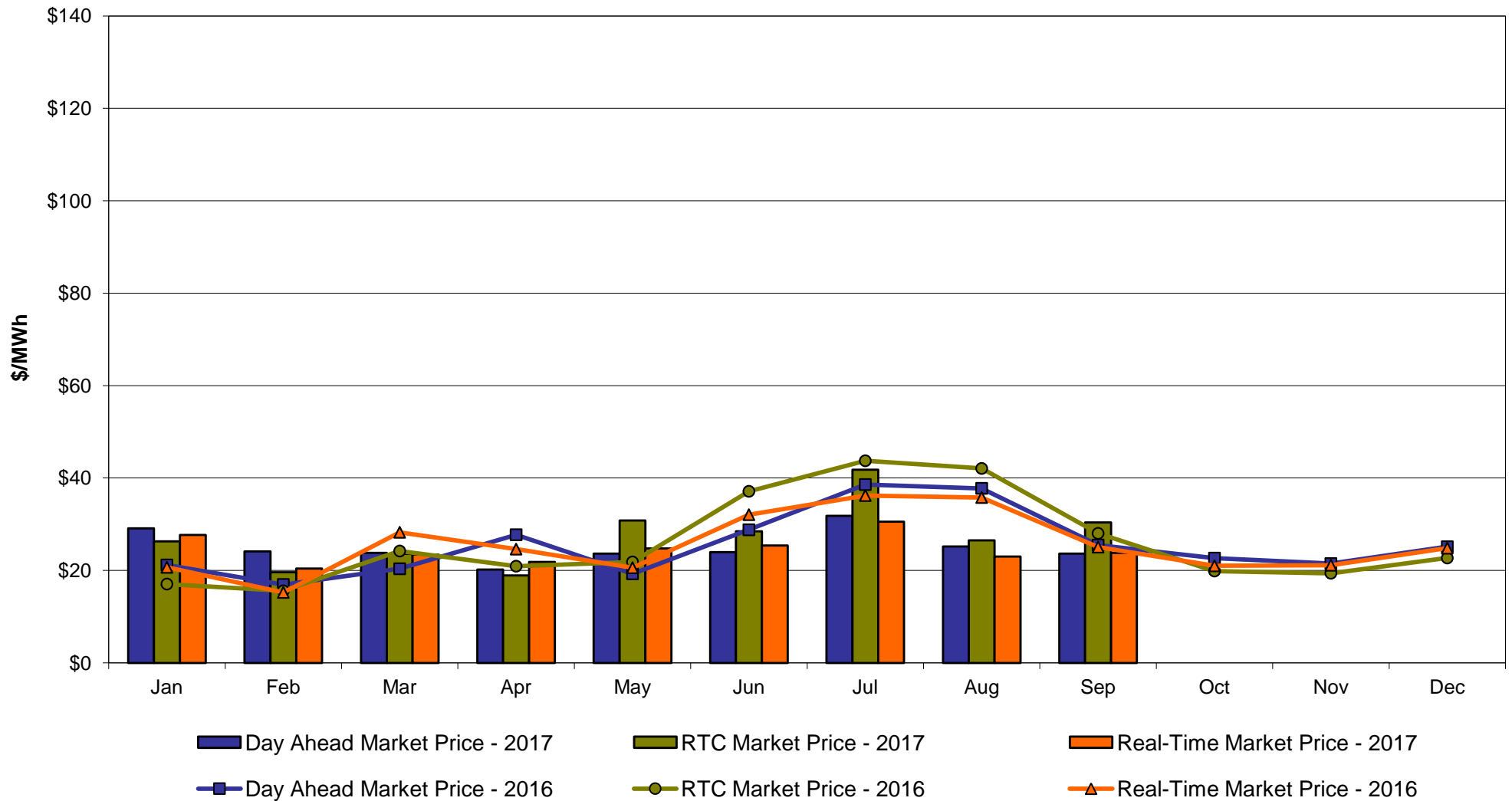


**September 2017 Zonal LBMP Statistics for NYISO (\$/MWh)**

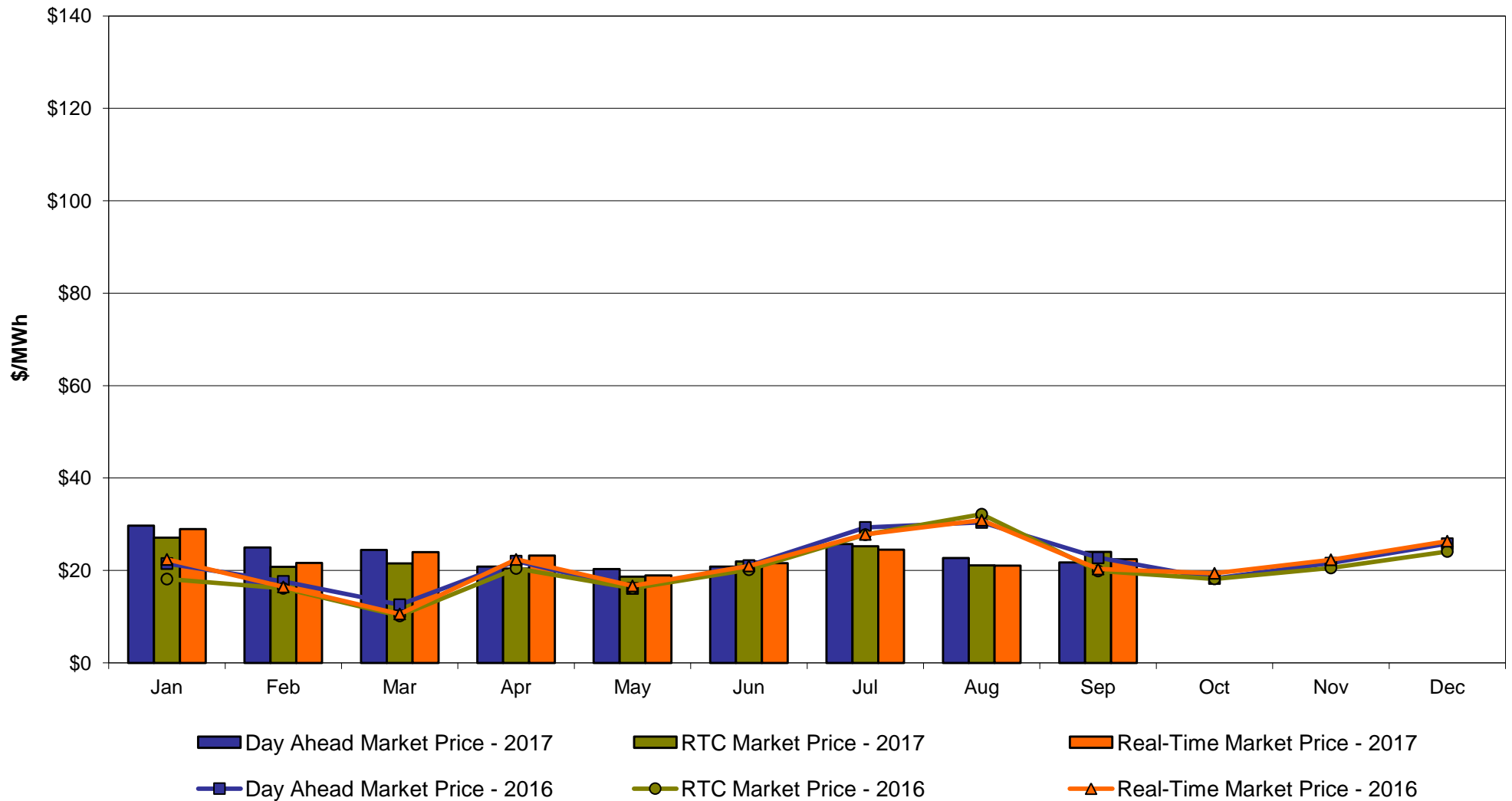
	<b><u>WEST Zone A</u></b>	<b><u>GENESEE Zone B</u></b>	<b><u>NORTH Zone D</u></b>	<b><u>CENTRAL Zone C</u></b>	<b><u>MOHAWK VALLEY Zone E</u></b>	<b><u>CAPITAL Zone F</u></b>	<b><u>HUDSON VALLEY Zone G</u></b>	<b><u>MILLWOOD Zone H</u></b>	<b><u>DUNWOODIE Zone I</u></b>	<b><u>NEW YORK CITY Zone J</u></b>	<b><u>LONG ISLAND Zone K</u></b>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	23.64	21.28	14.08	21.72	21.16	23.65	24.42	24.62	24.65	26.26	31.04
Standard Deviation	15.84	11.06	11.48	11.35	11.33	10.75	11.54	11.62	11.59	12.01	14.39
<b><u>RTC LBMP</u></b>											
Unweighted Price *	30.39	23.83	17.92	24.01	23.45	25.07	26.52	26.92	27.04	27.74	36.81
Standard Deviation	79.62	25.94	68.19	20.22	23.17	19.78	25.03	27.31	27.58	28.03	49.46
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	23.83	22.24	12.86	22.42	21.70	23.90	25.64	26.12	26.37	27.16	33.59
Standard Deviation	19.81	16.88	108.47	16.77	26.03	17.09	26.39	30.55	31.21	31.59	45.88
	<b><u>ONTARIO IESO  Zone O</u></b>	<b><u>HYDRO QUEBEC (Wheel) Zone M</u></b>	<b><u>HYDRO QUEBEC (Import/Export) Zone M</u></b>	<b><u>PJM Zone P</u></b>	<b><u>NEW ENGLAND Zone N</u></b>	<b><u>CROSS SOUND CABLE Controllable Line</u></b>	<b><u>NORTHPORT- NORWALK Controllable Line</u></b>	<b><u>NEPTUNE Controllable Line</u></b>	<b><u>LINDEN VFT Controllable Line</u></b>	<b><u>HUDSON Controllable Line</u></b>	<b><u>Dennison Controllable Line</u></b>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	20.57	15.07	15.07	23.32	23.78	28.28	26.18	27.50	26.33	26.32	14.60
Standard Deviation	10.67	10.49	10.49	11.86	10.97	12.06	11.39	11.48	12.03	12.07	11.16
<b><u>RTC LBMP</u></b>											
Unweighted Price *	21.65	17.71	17.71	28.63	27.99	32.72	32.03	31.81	27.33	27.43	18.65
Standard Deviation	18.43	75.33	75.33	45.45	40.09	43.82	42.30	42.81	27.27	27.55	66.26
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	21.47	12.09	12.09	26.99	25.53	30.59	28.94	29.93	26.68	26.76	12.59
Standard Deviation	16.42	121.60	121.60	47.08	27.11	40.52	39.56	39.26	30.86	31.28	104.52

\* Straight LBMP averages

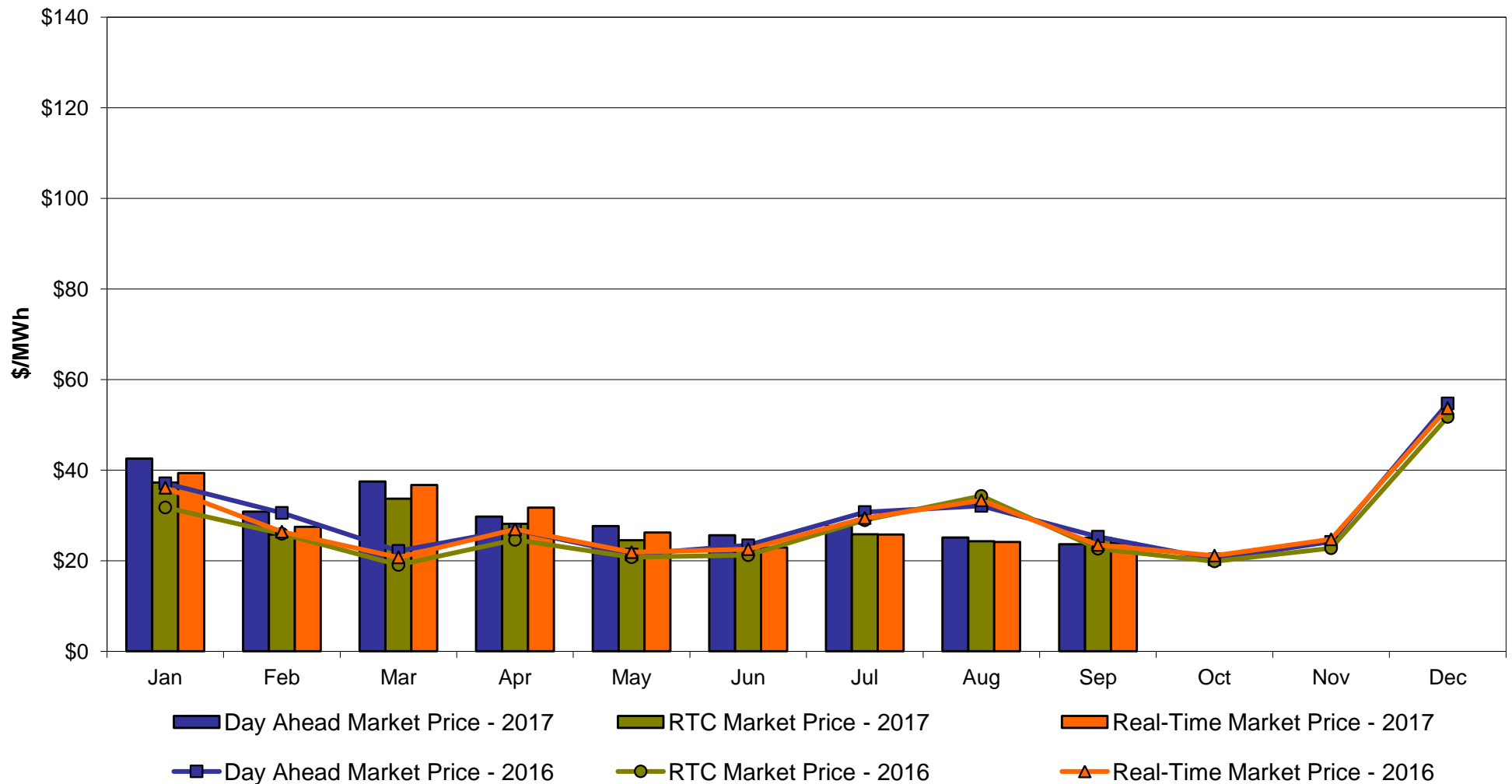
# **West Zone A** **Monthly Average LBMP Prices 2016 - 2017**



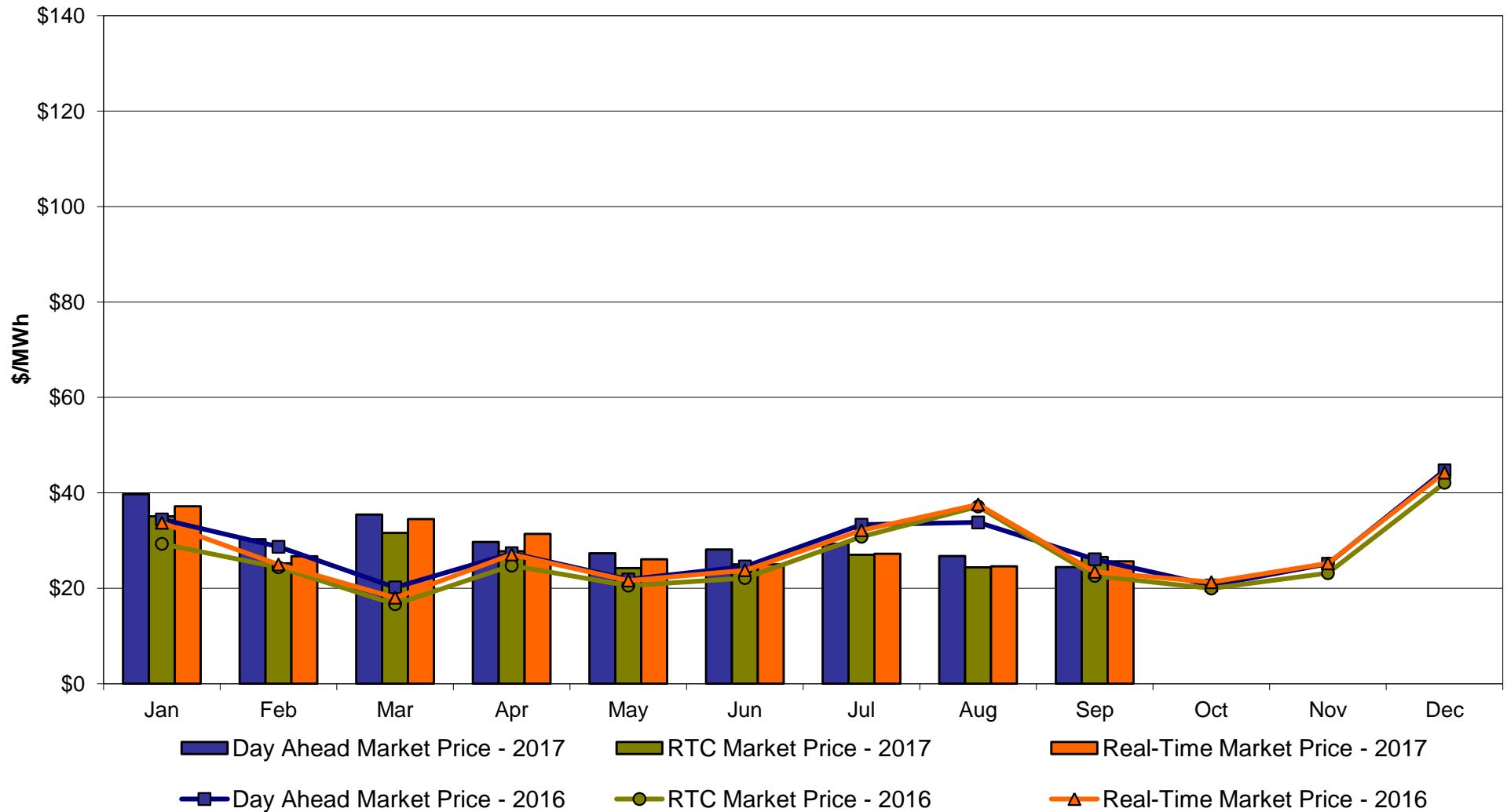
# **Central Zone C** **Monthly Average LBMP Prices 2016 - 2017**



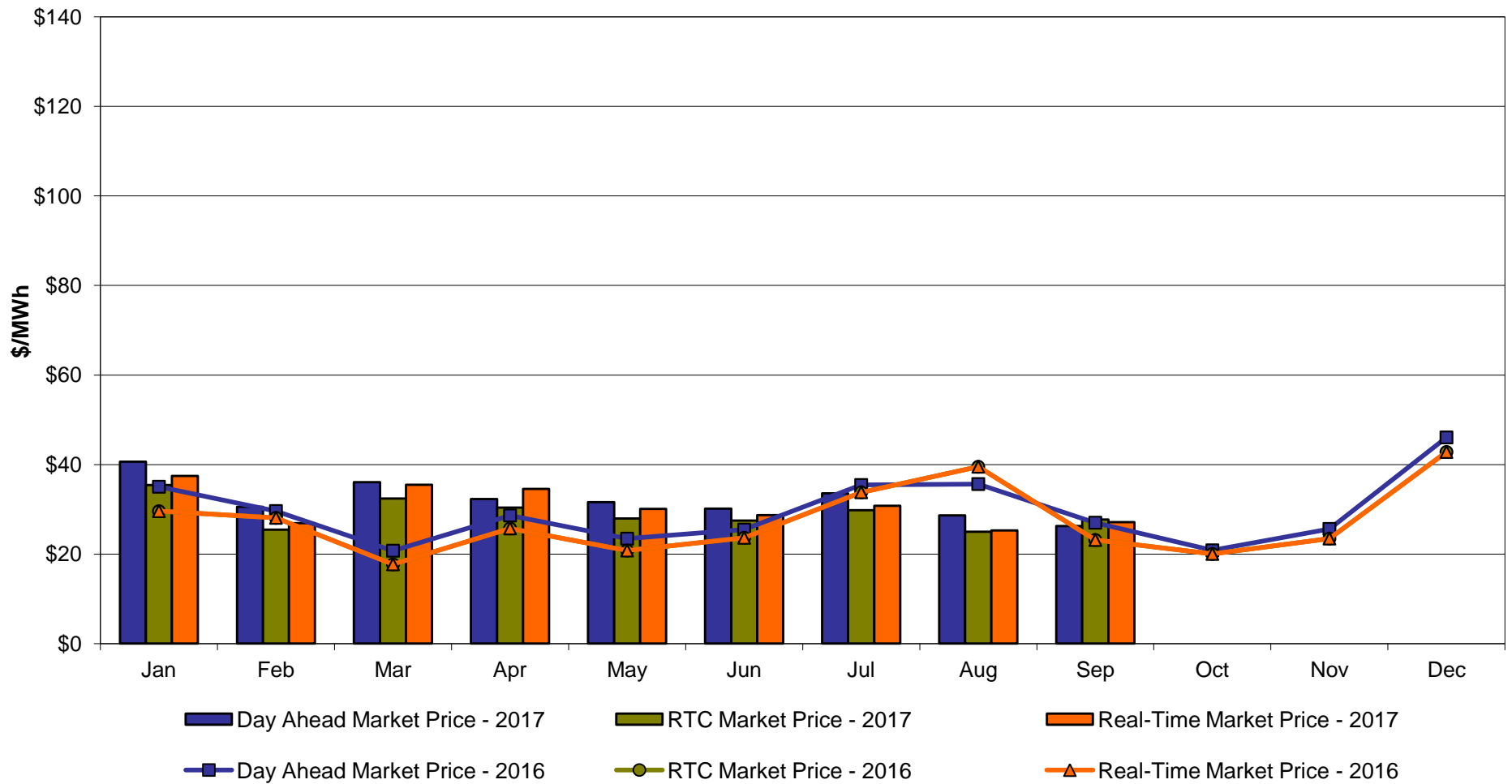
# **Capital Zone F** **Monthly Average LBMP Prices 2016 - 2017**



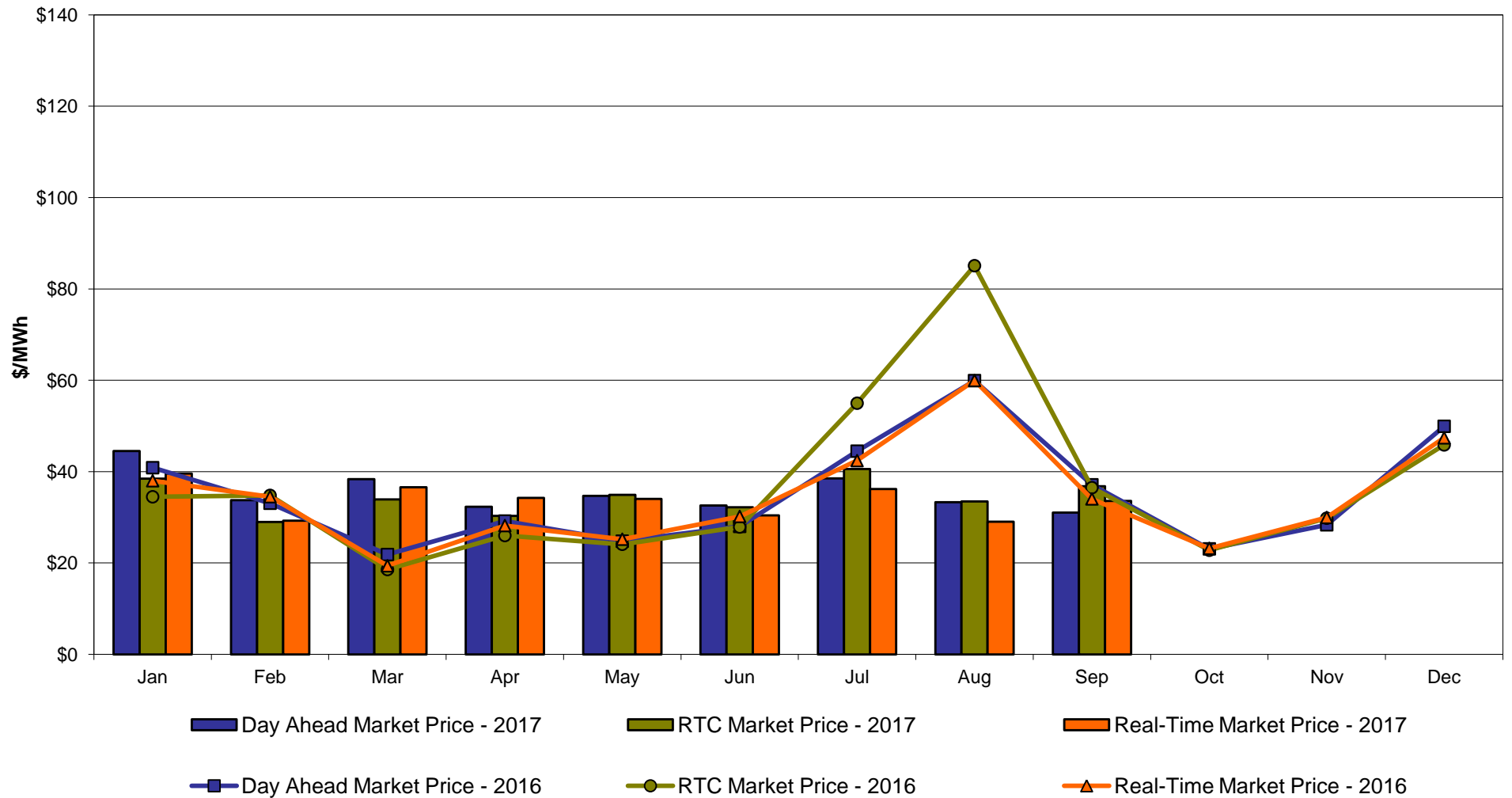
# **Hudson Valley Zone G** **Monthly Average LBMP Prices 2016 - 2017**



# NYC Zone J Monthly Average LBMP Prices 2016 - 2017

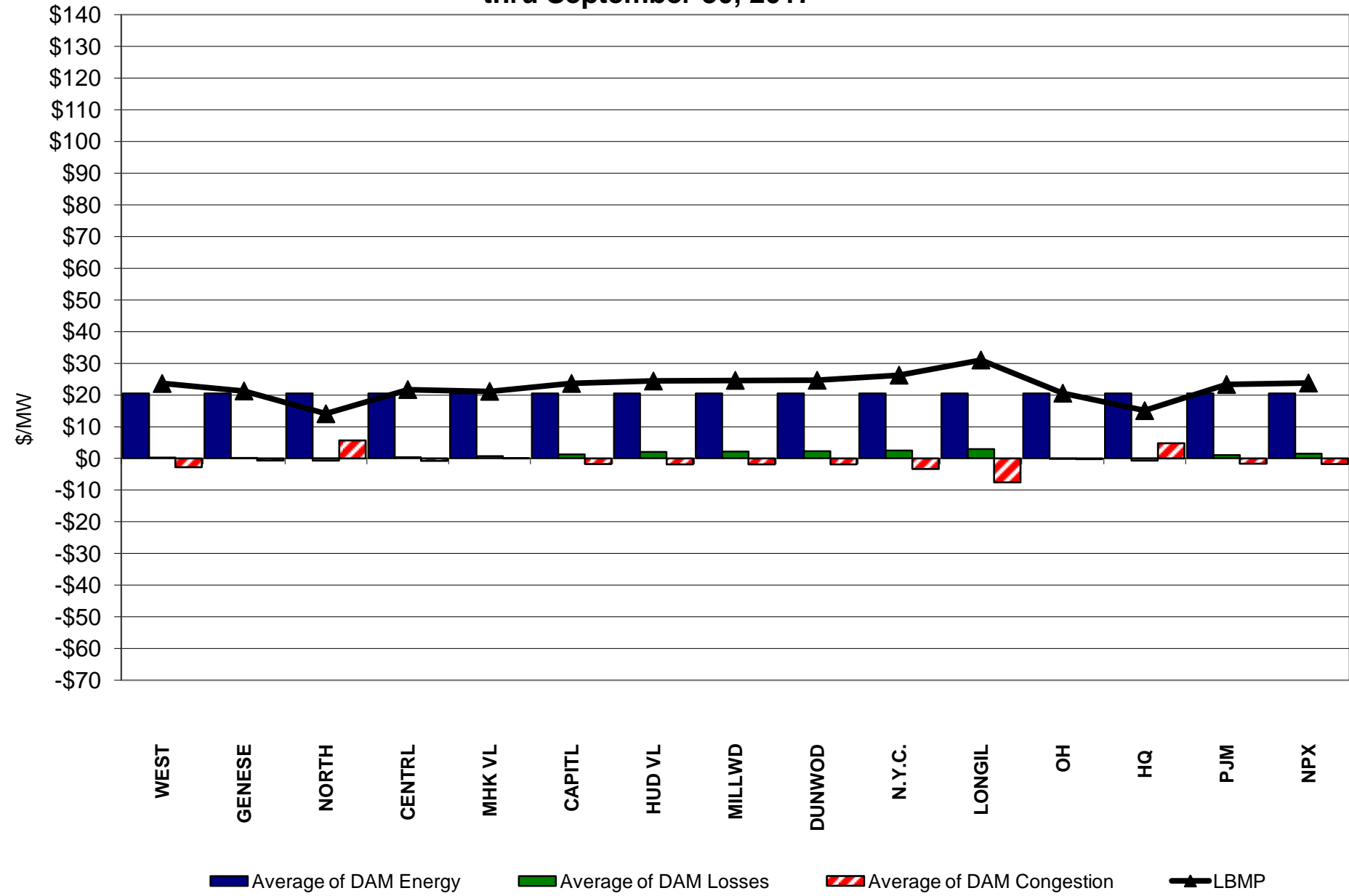


# Long Island Zone K Monthly Average LBMP Prices 2016 - 2017

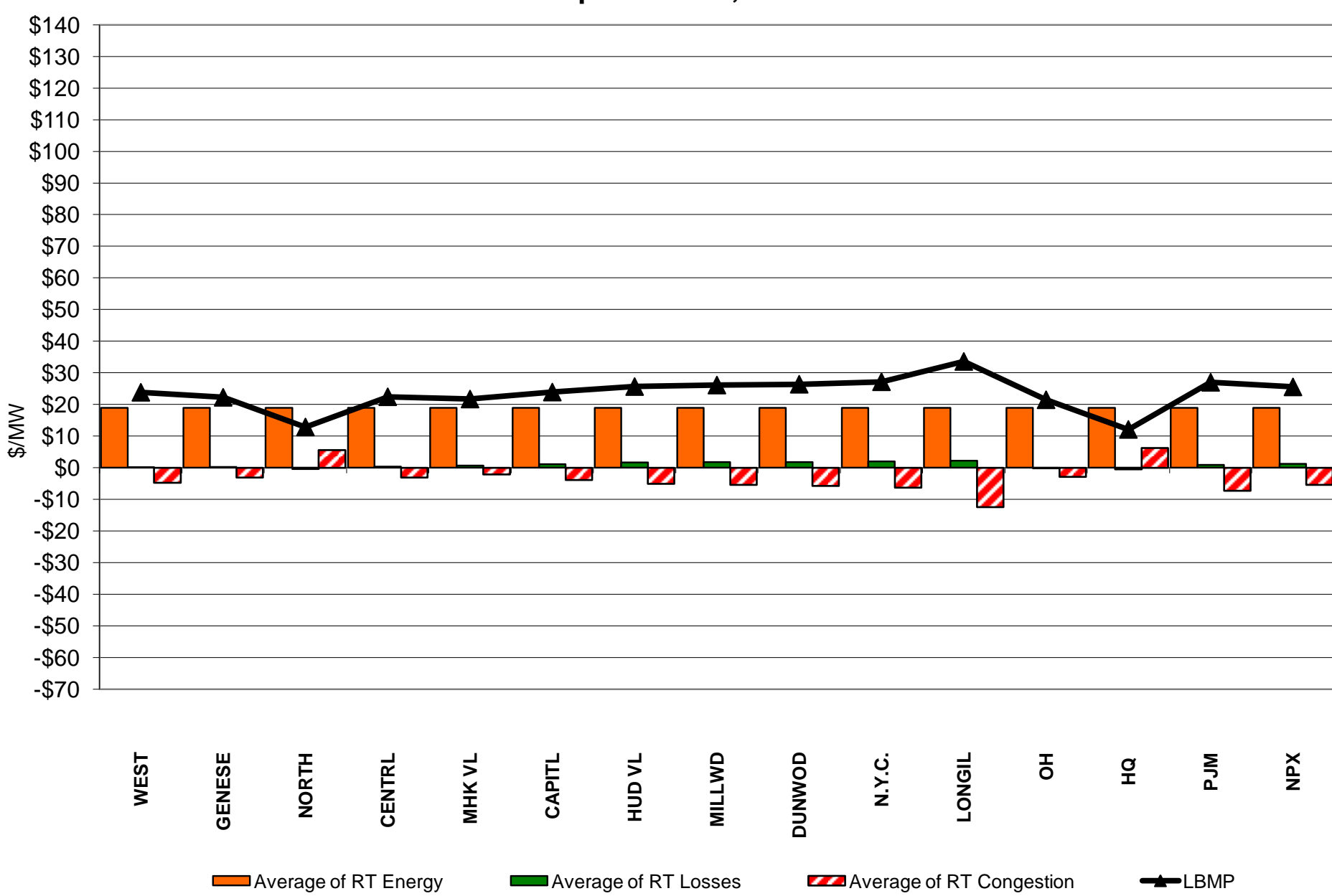




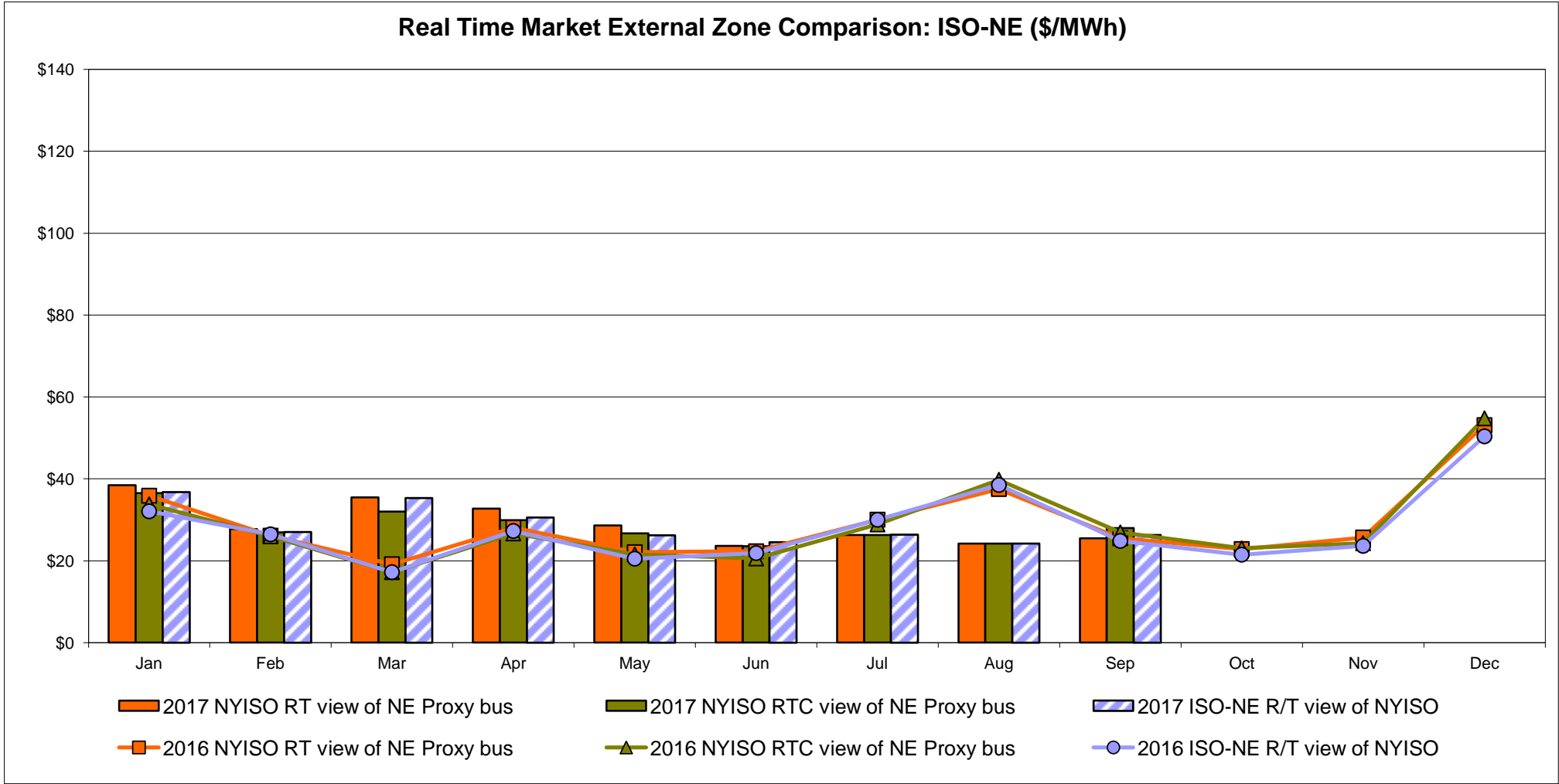
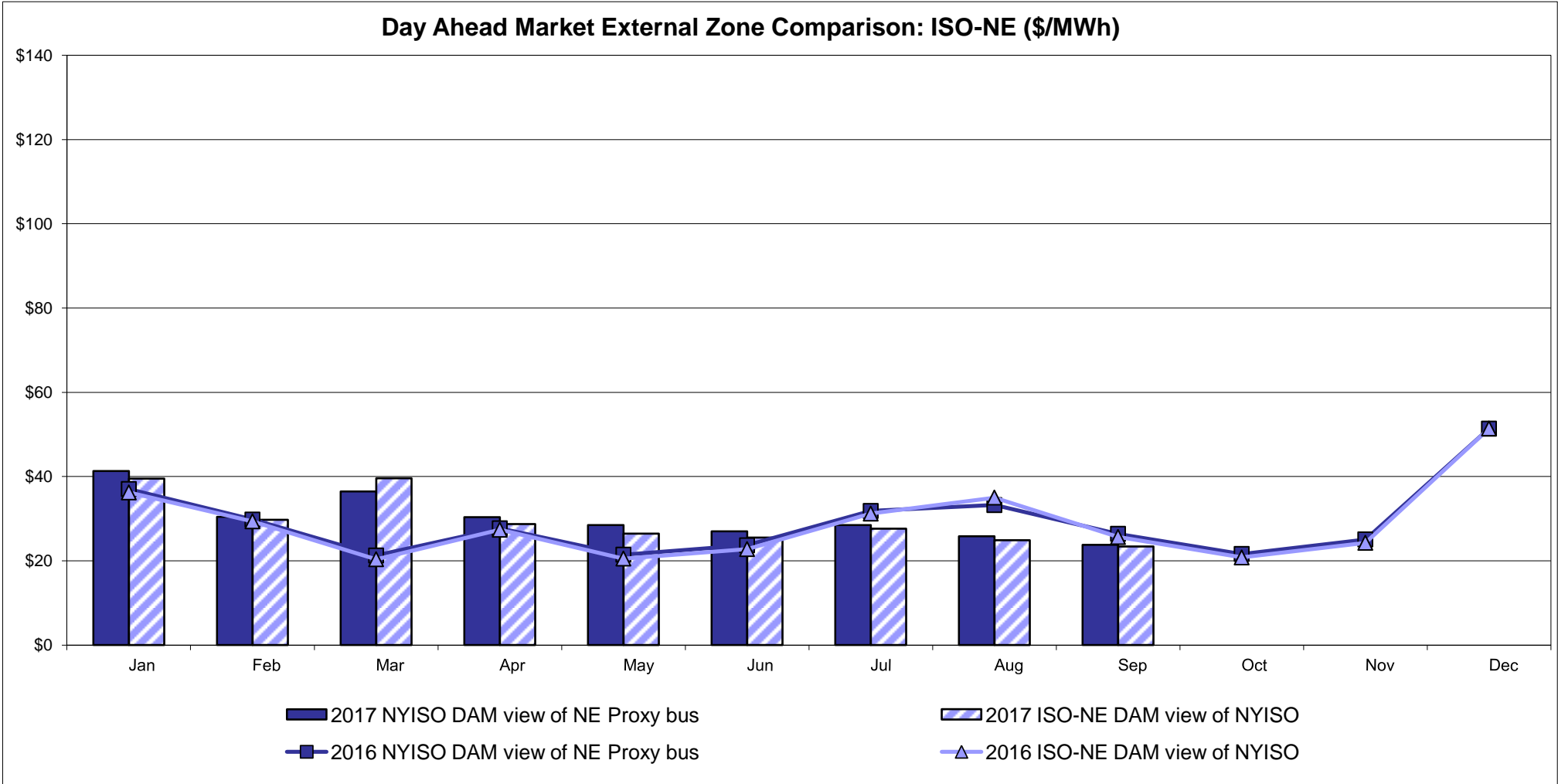
DAM Zonal Unweighted Monthly Average LBMP Components  
thru September 30, 2017



RT Zonal Unweighted Monthly Average LBMP Components  
thru September 30, 2017

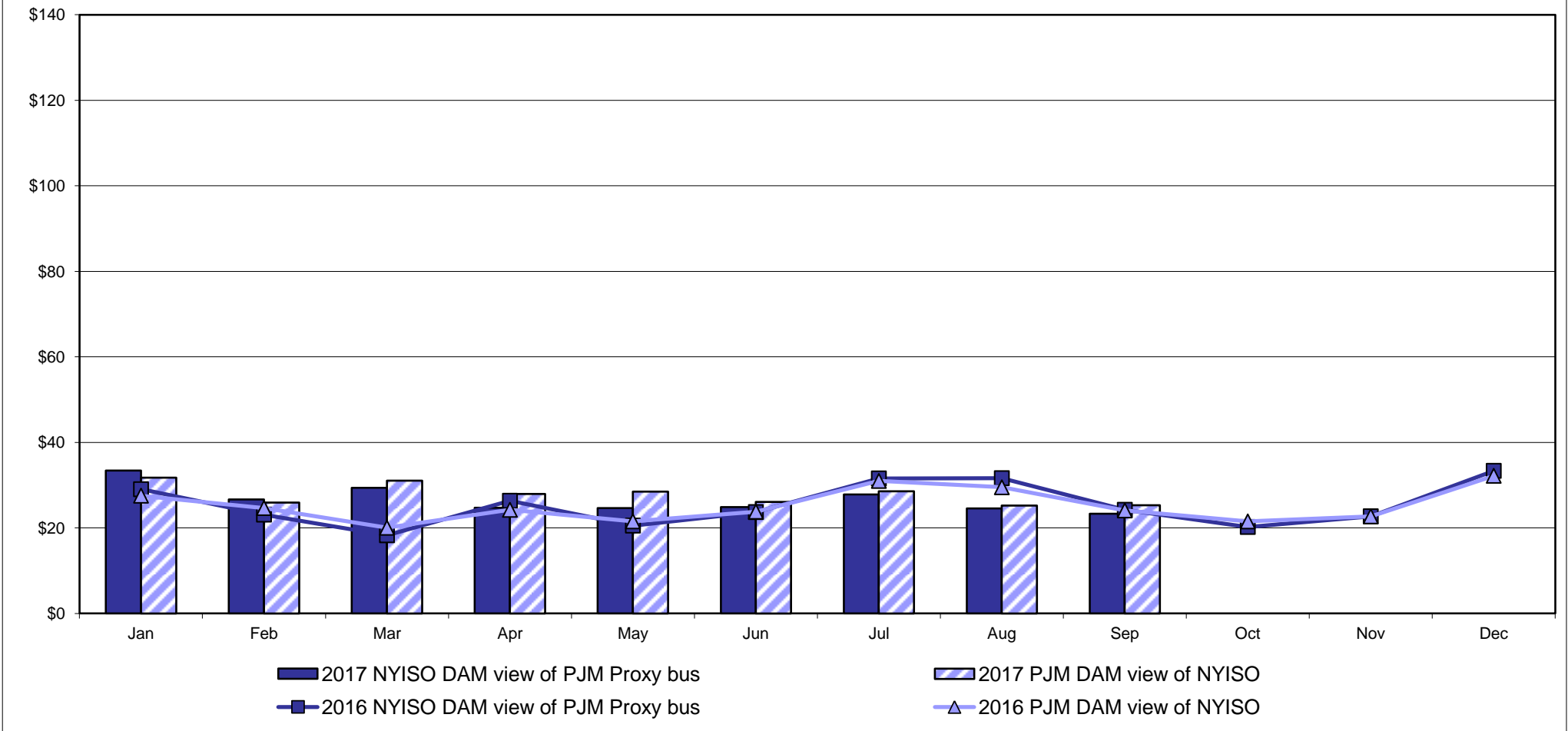


External Comparison ISO-New England

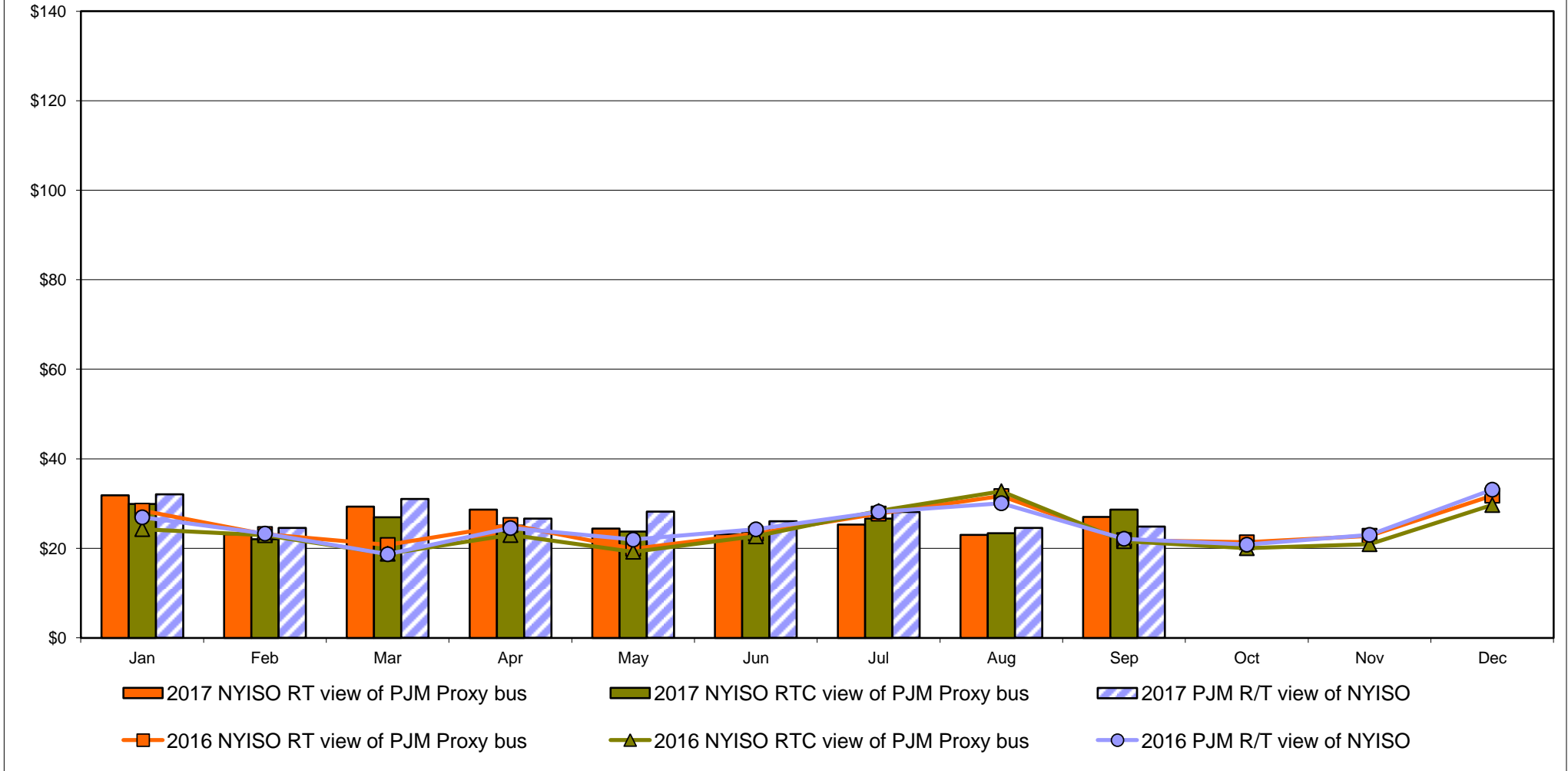


# External Comparison PJM

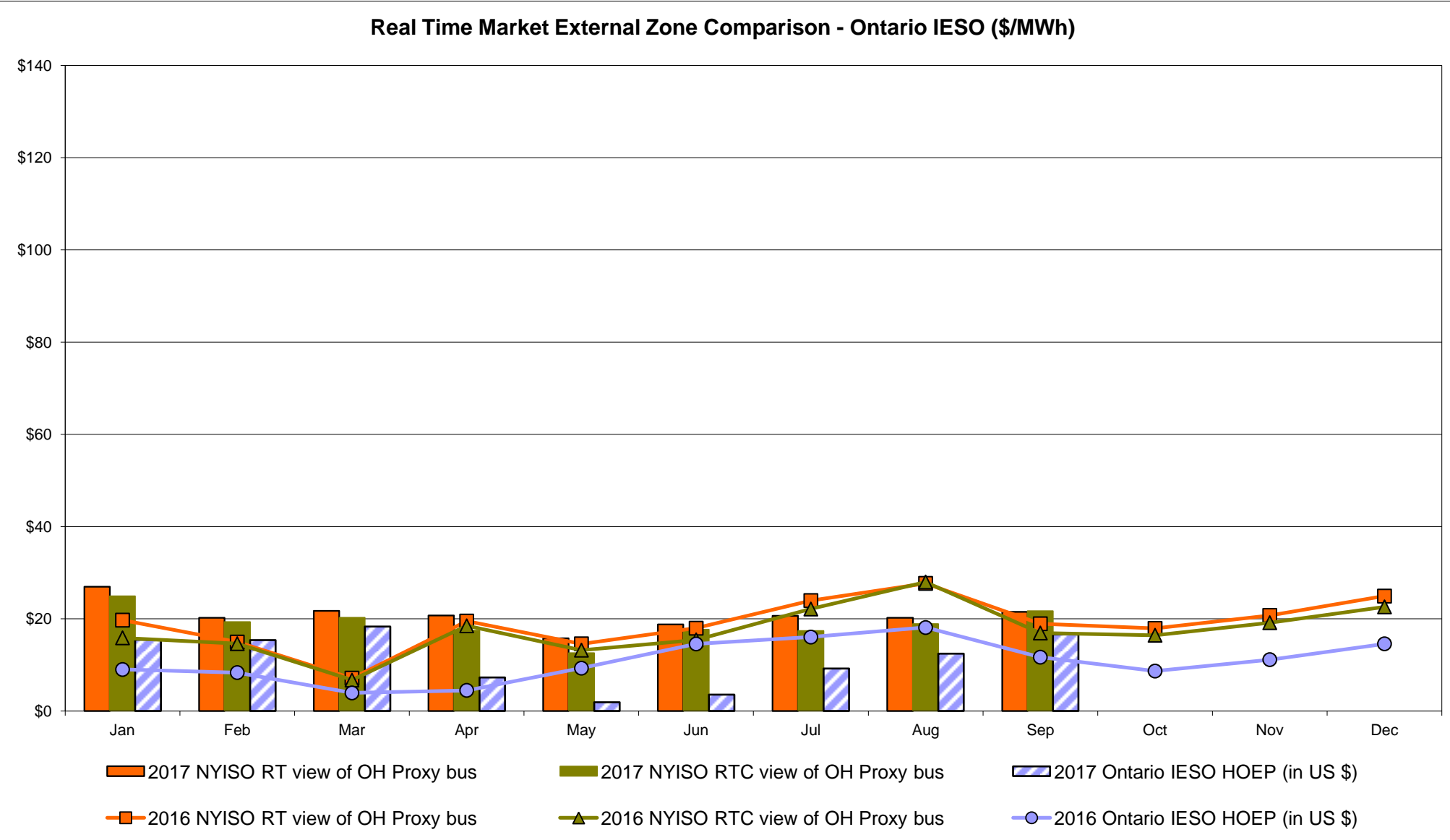
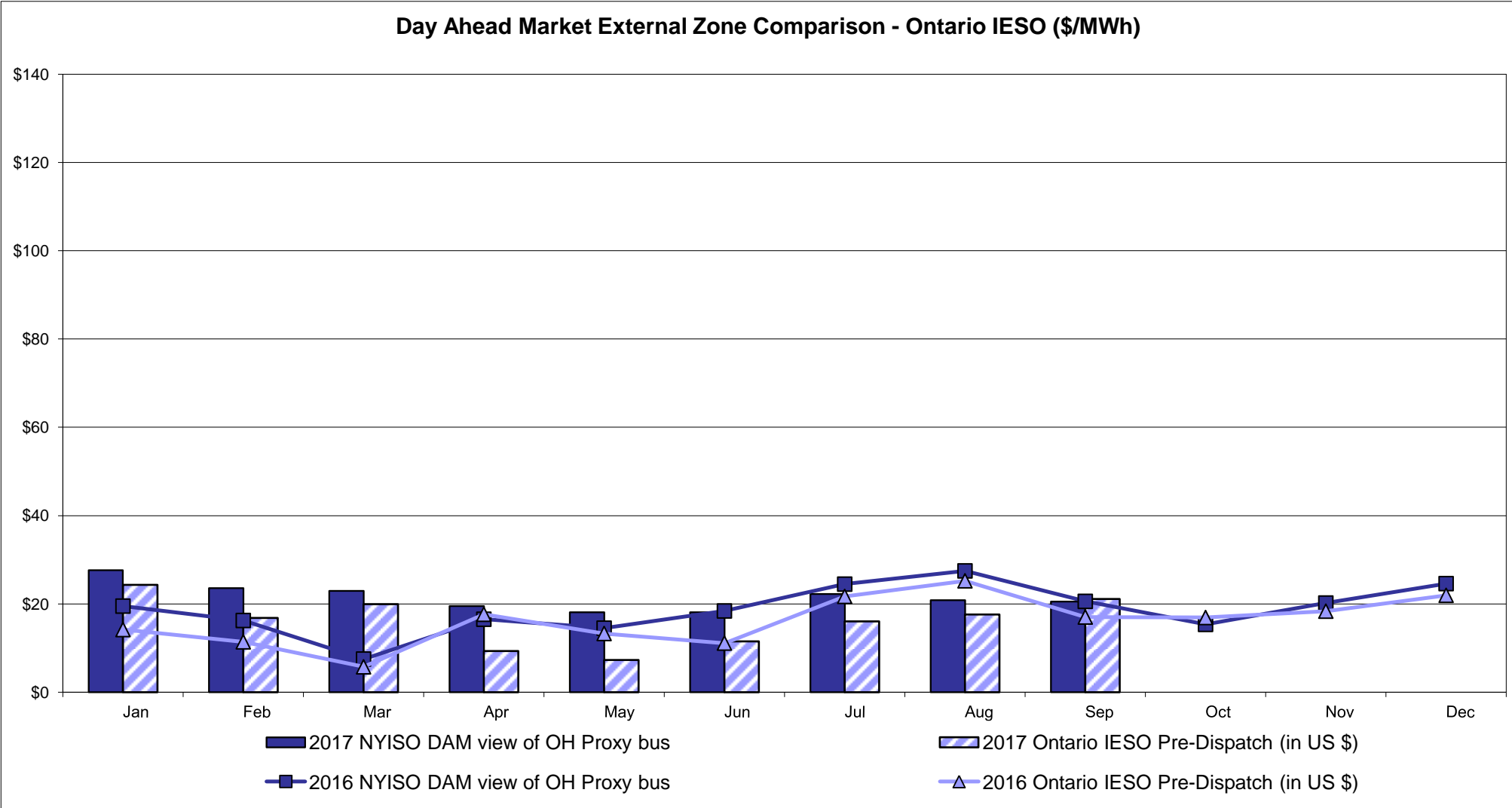
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

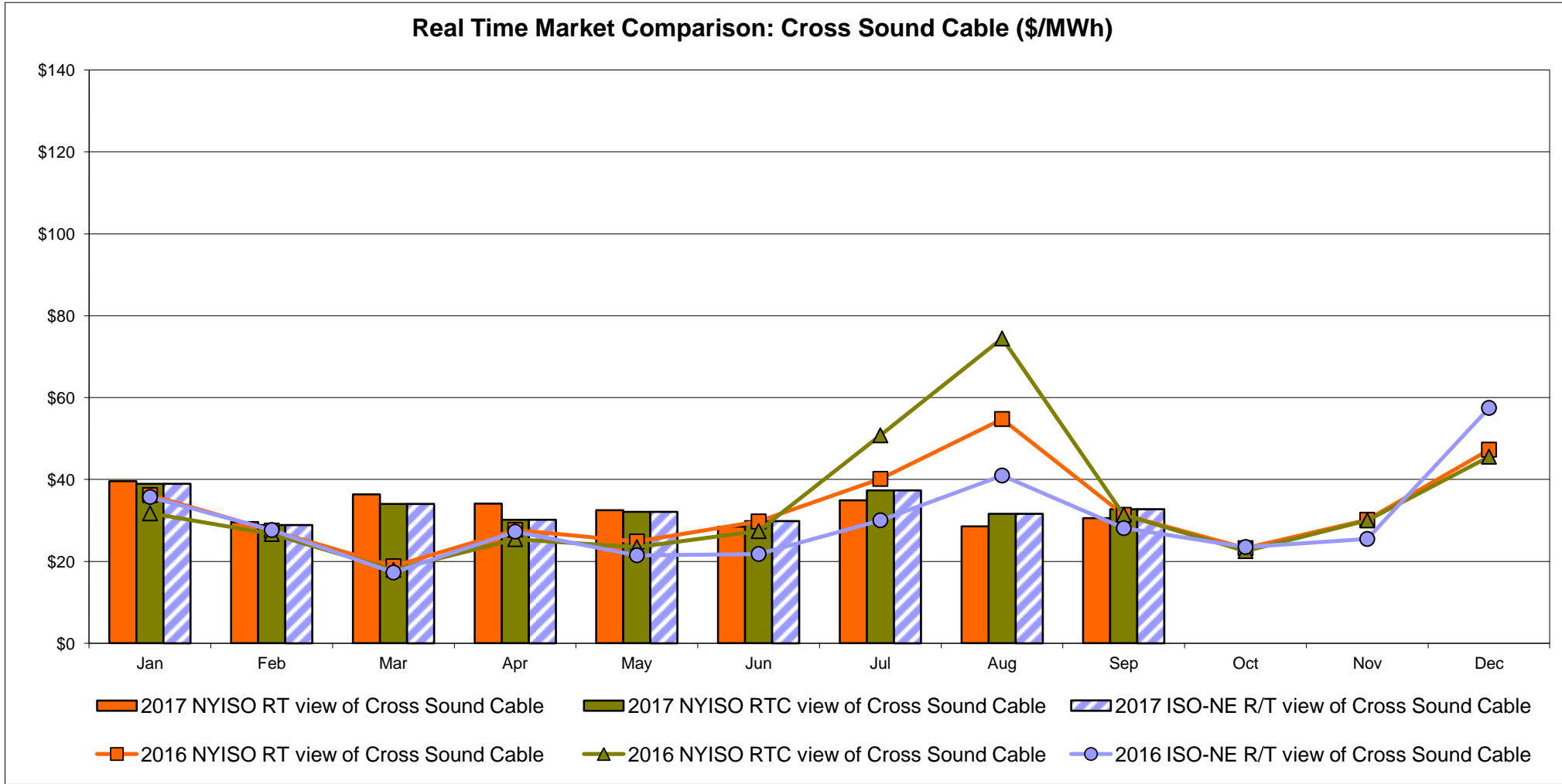
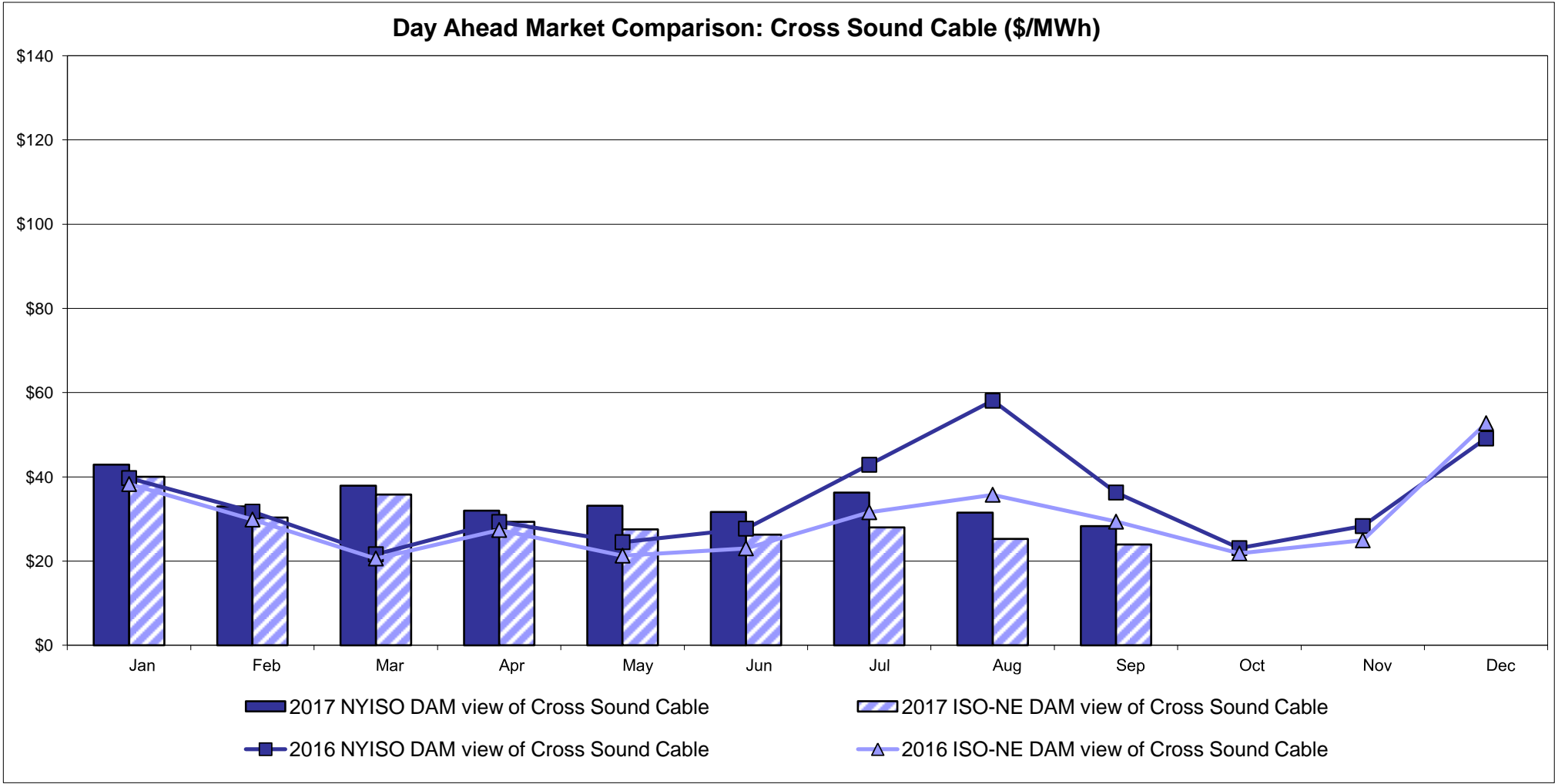


External Comparison Ontario IESO



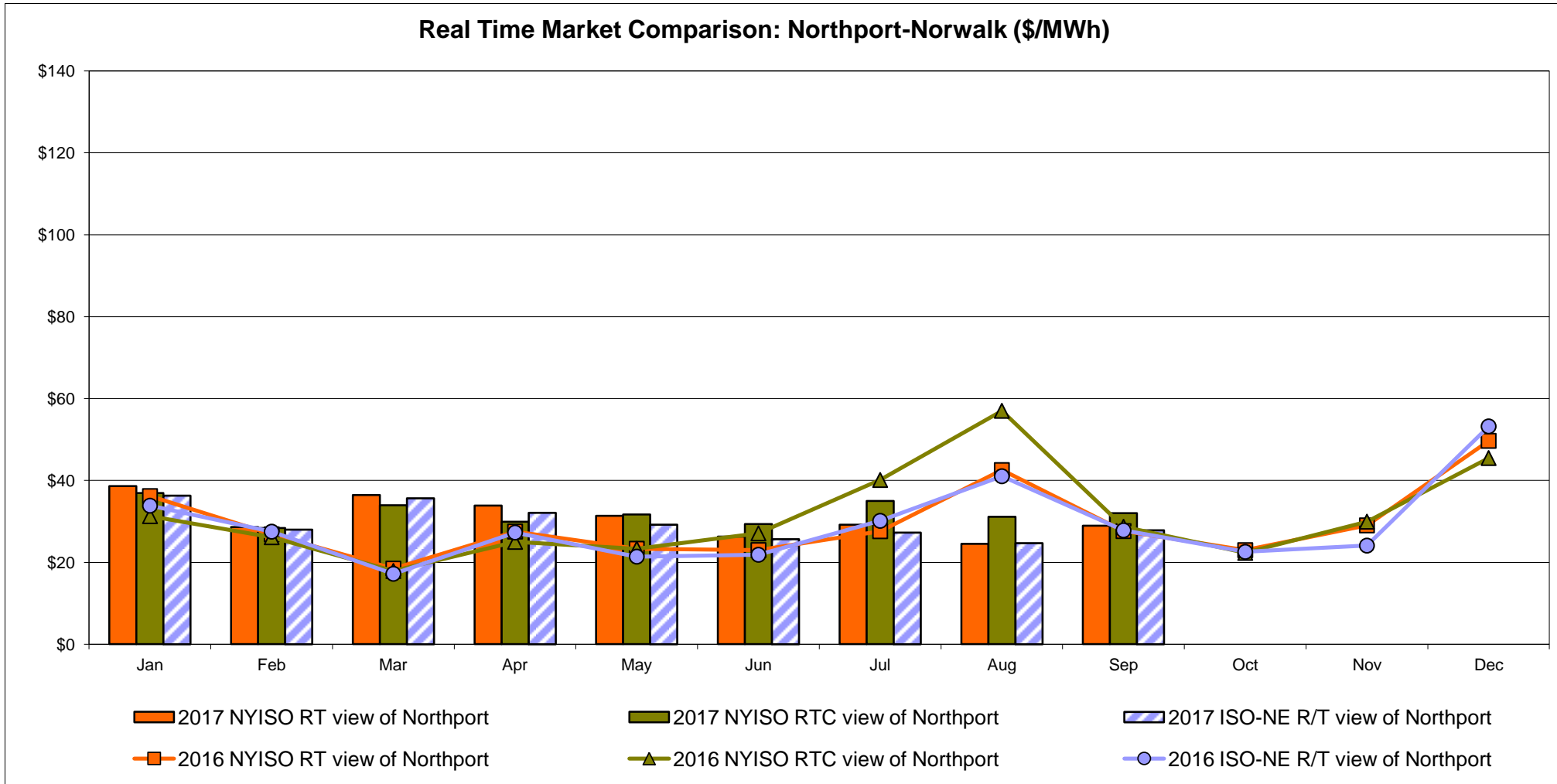
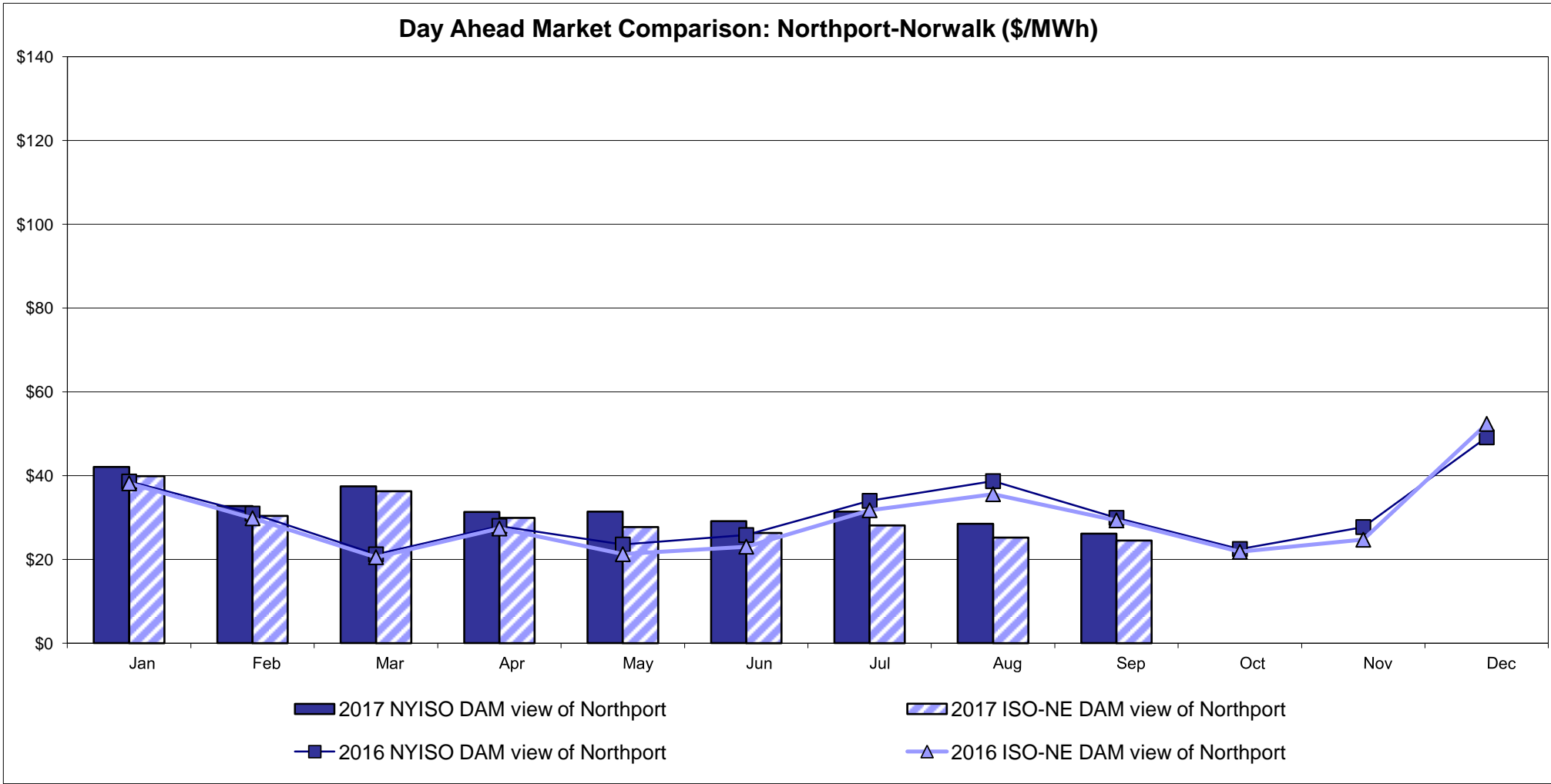
Notes: Exchange factor used for September 2017 was 0.814398566658523 to US  
HOEP: Hourly Ontario Energy Price  
Pre-Dispatch: Projected Energy Price

# External Controllable Line: Cross Sound Cable (New England)



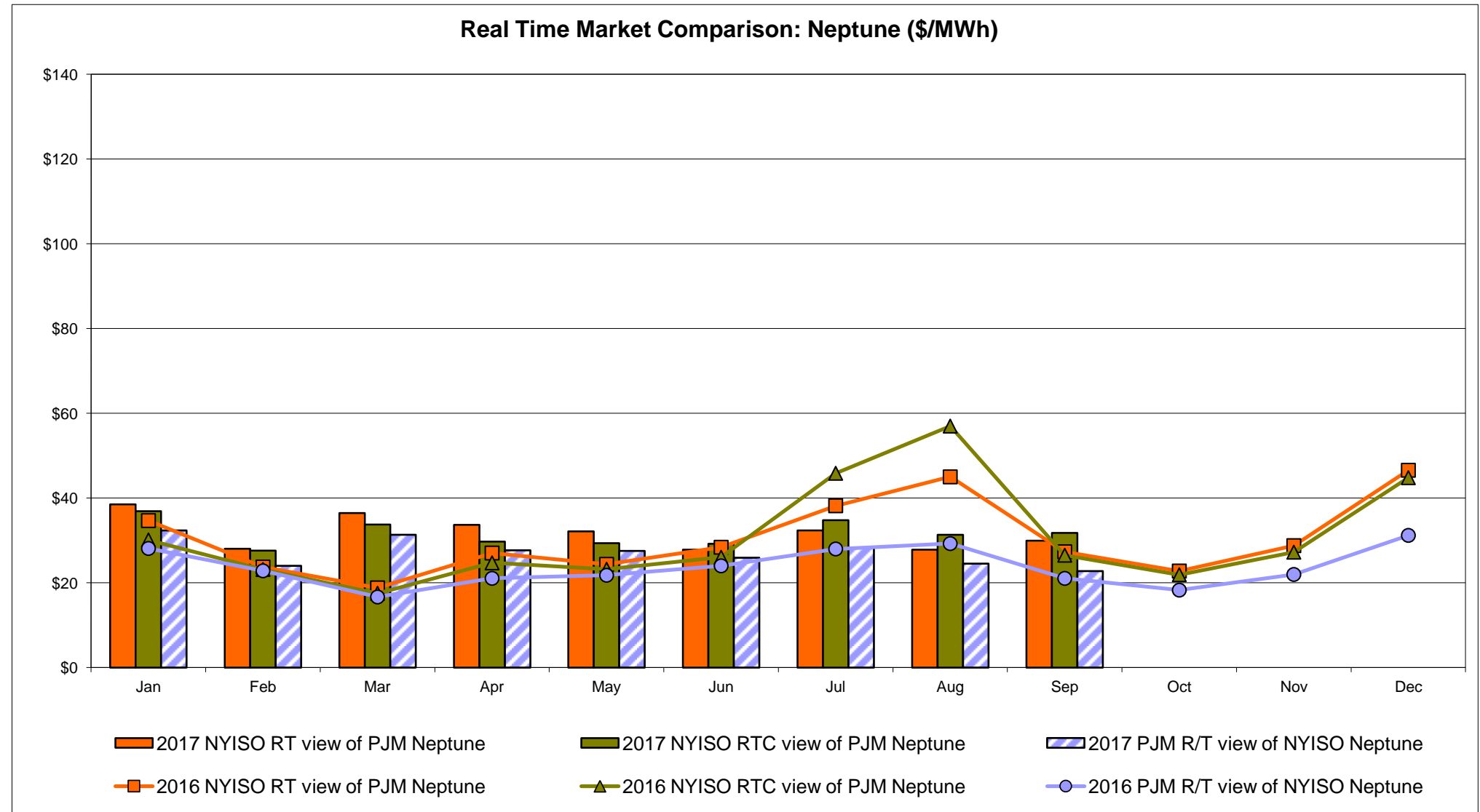
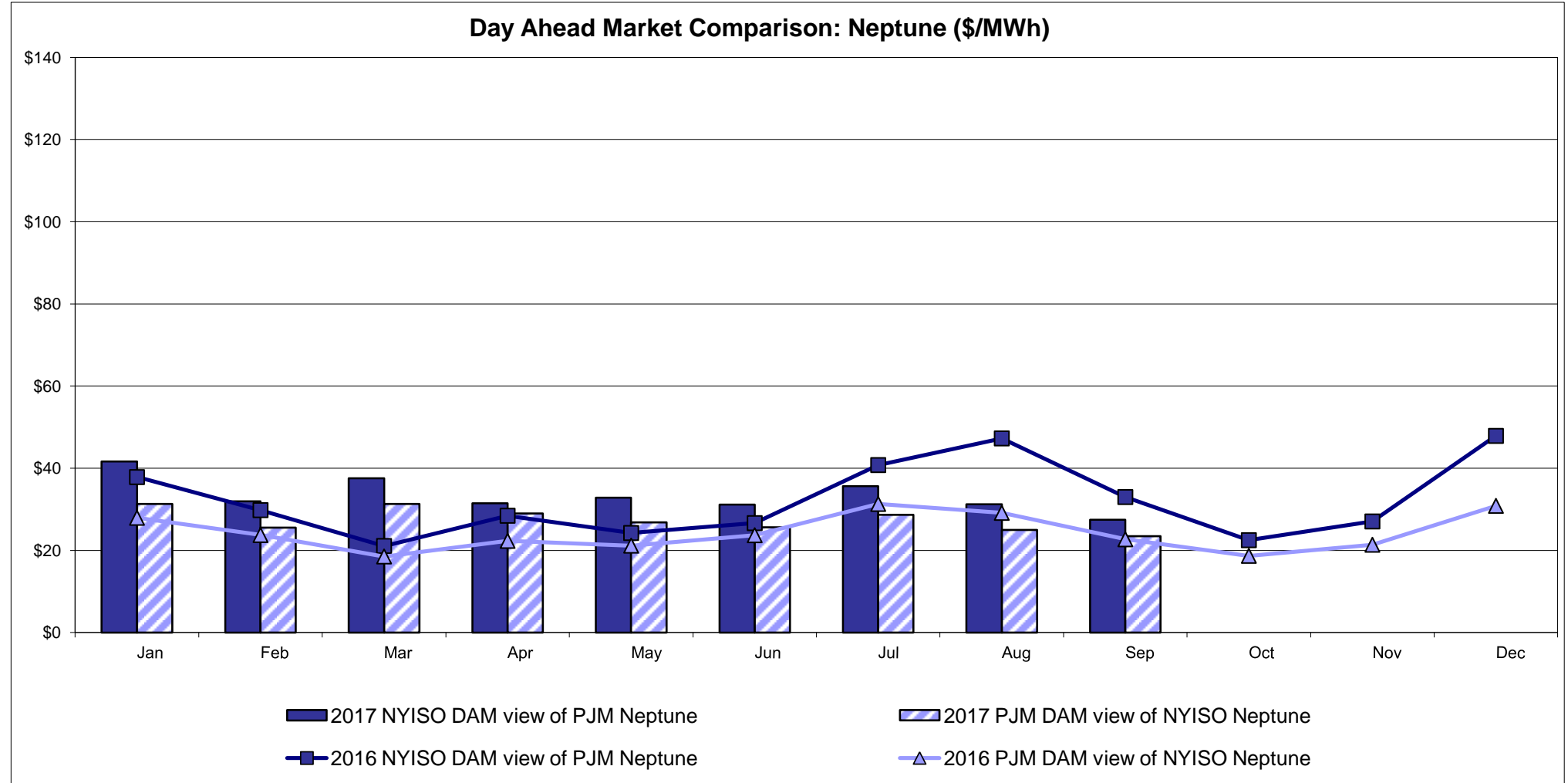
Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.  
The DAM and R/T prices at the CSC interface are used for NYISO.

# External Controllable Line: Northport - Norwalk (New England)

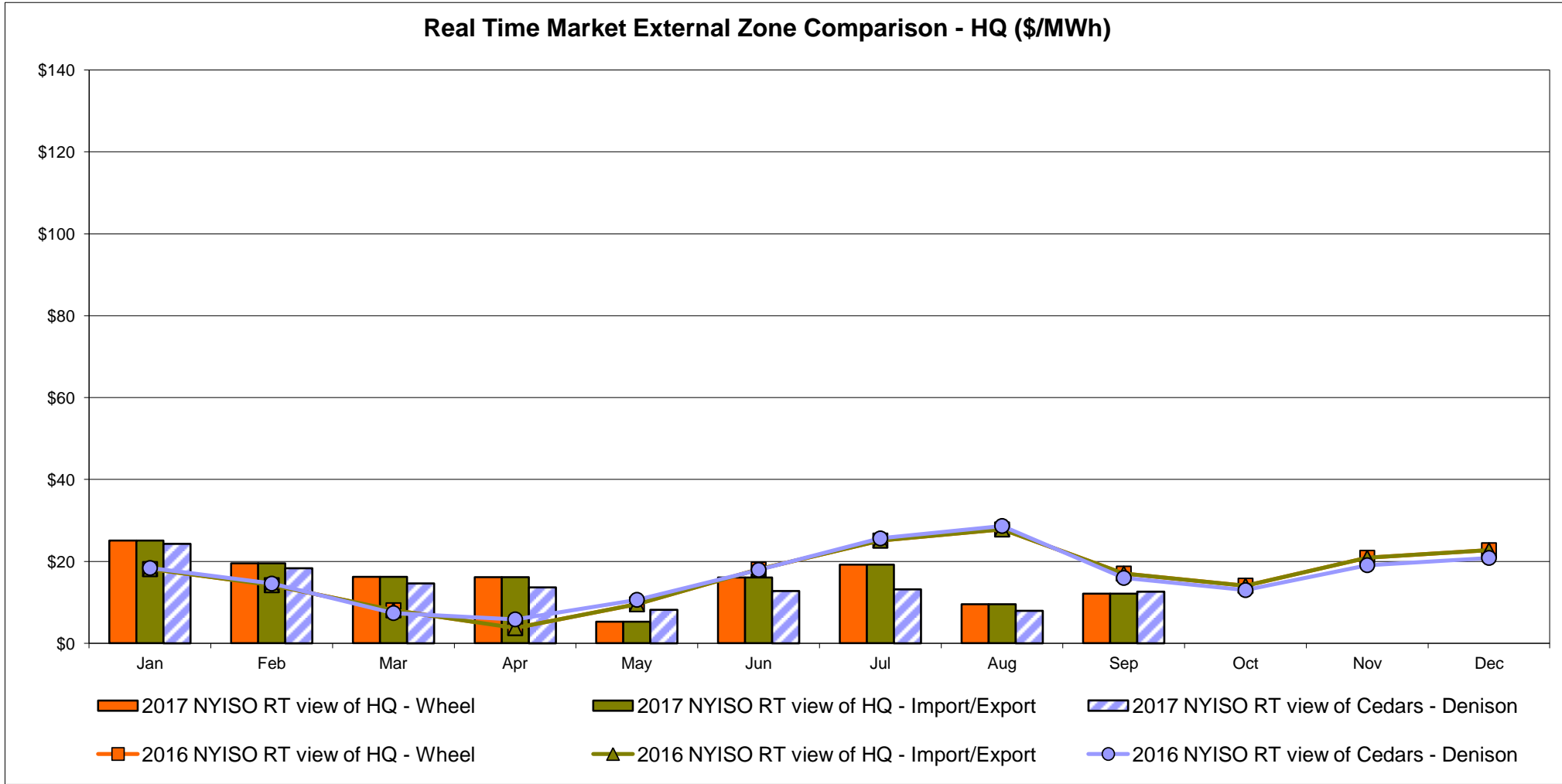
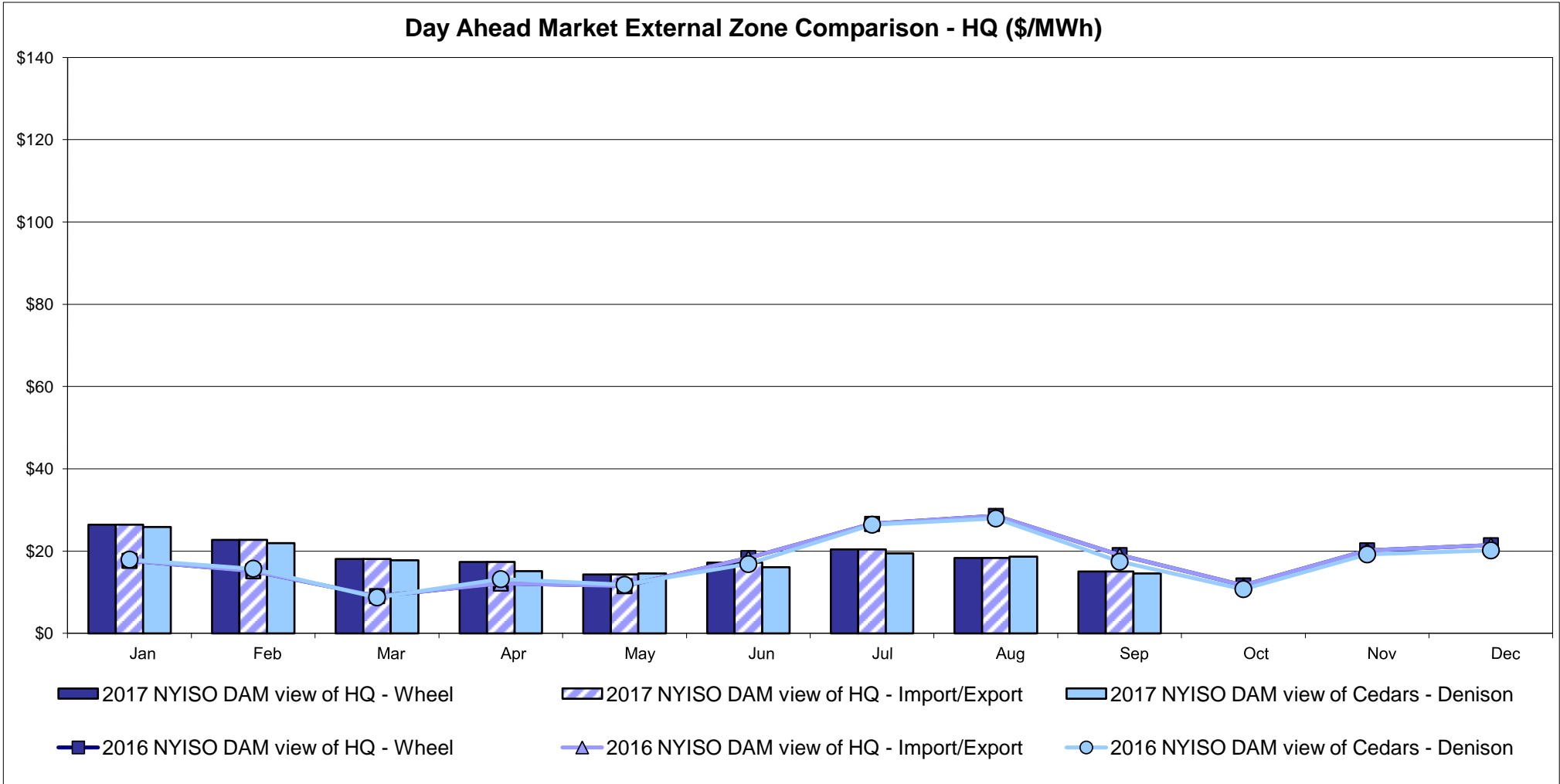


Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)



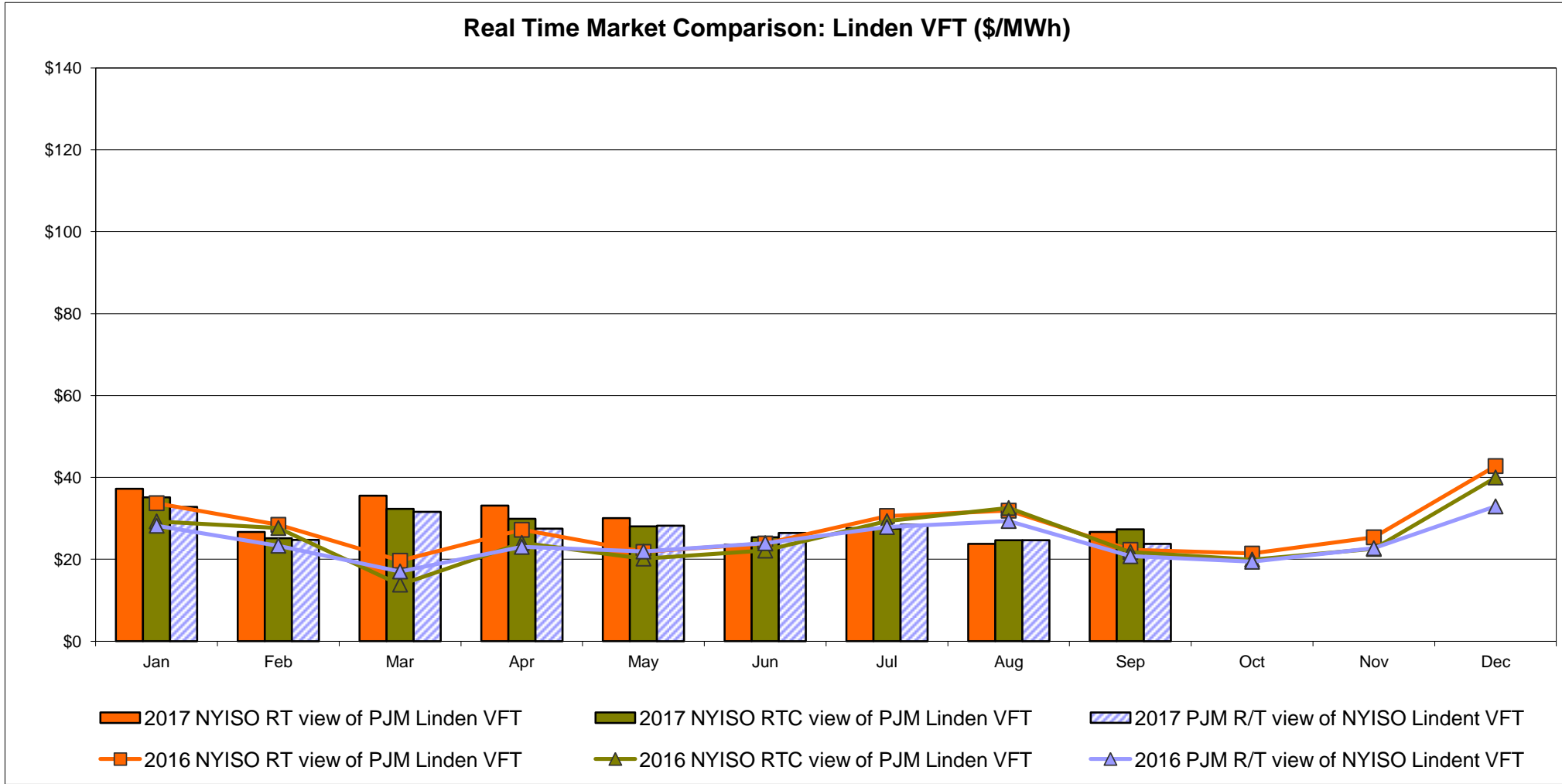
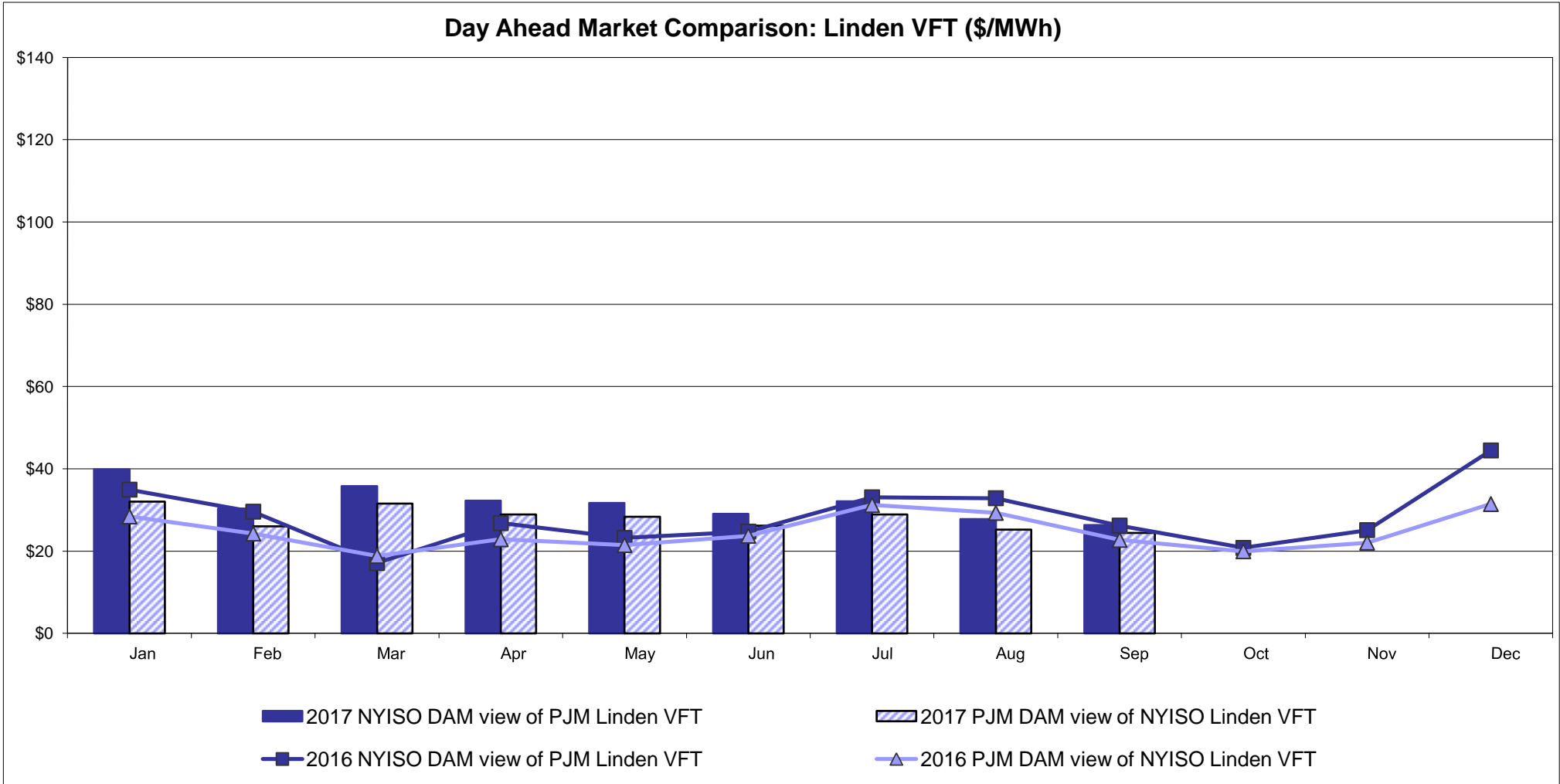
External Comparison Hydro-Quebec



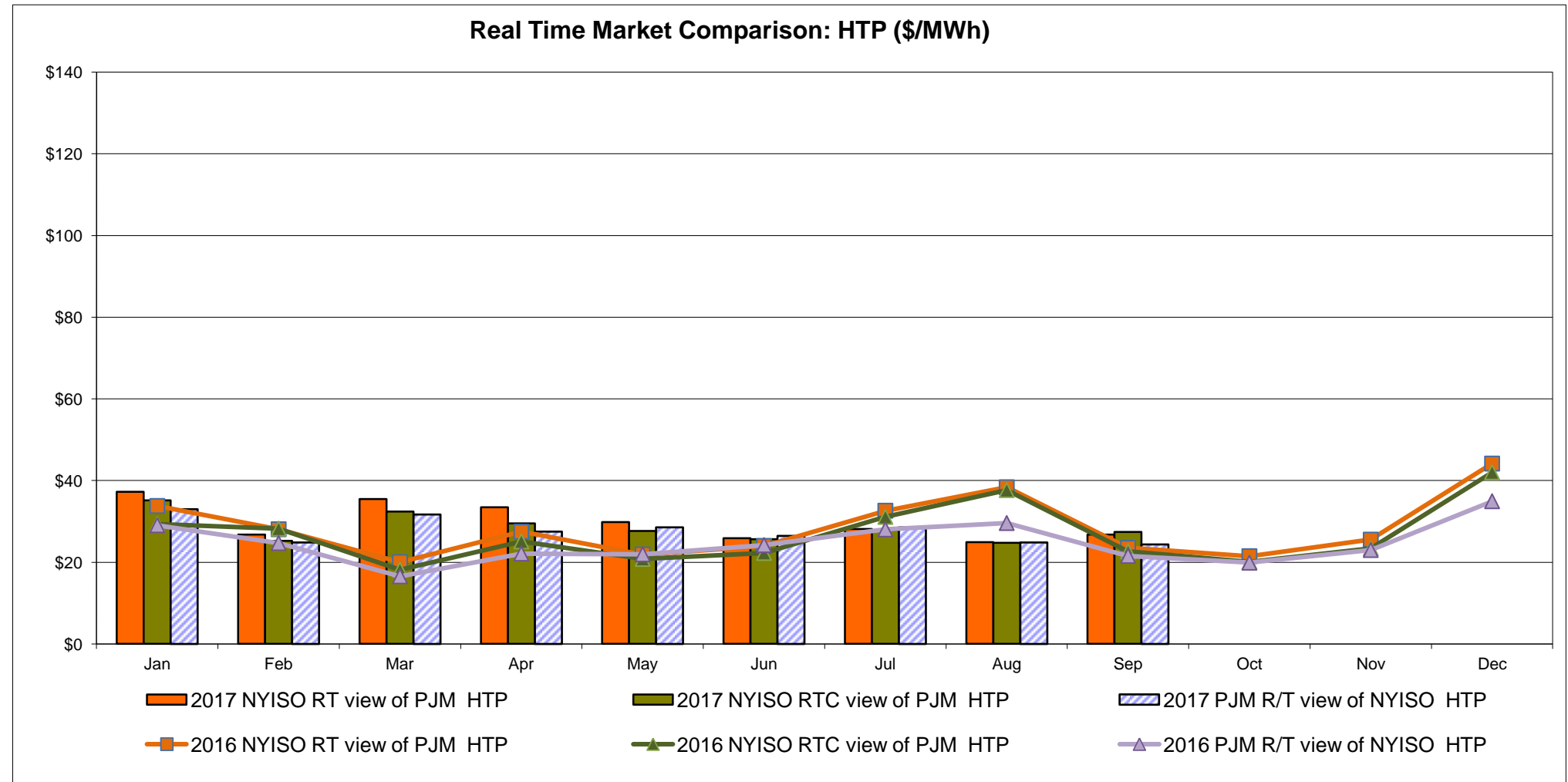
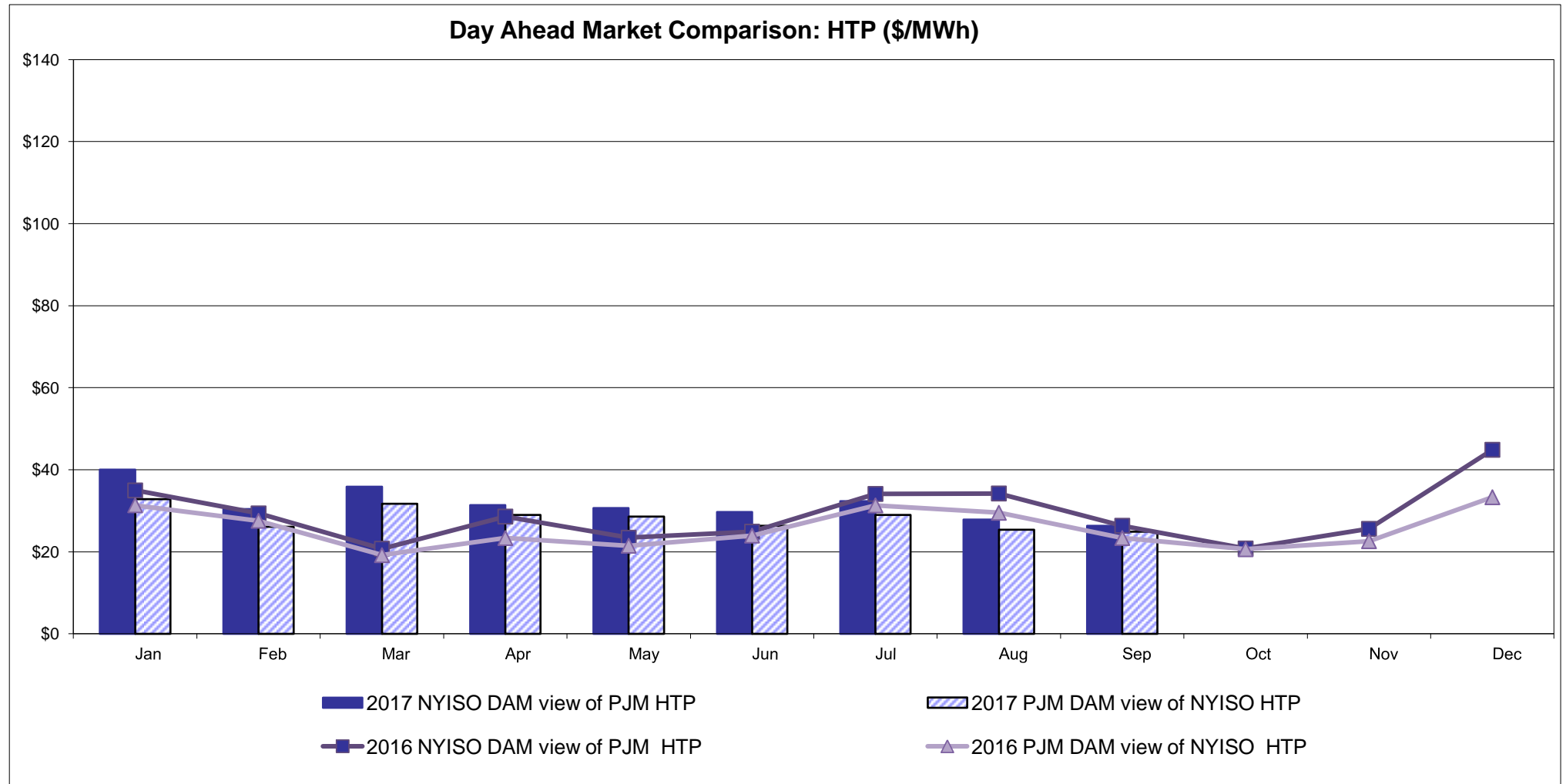
Note:  
Hydro-Quebec Prices are unavailable.



# External Controllable Line: Linden VFT (PJM)



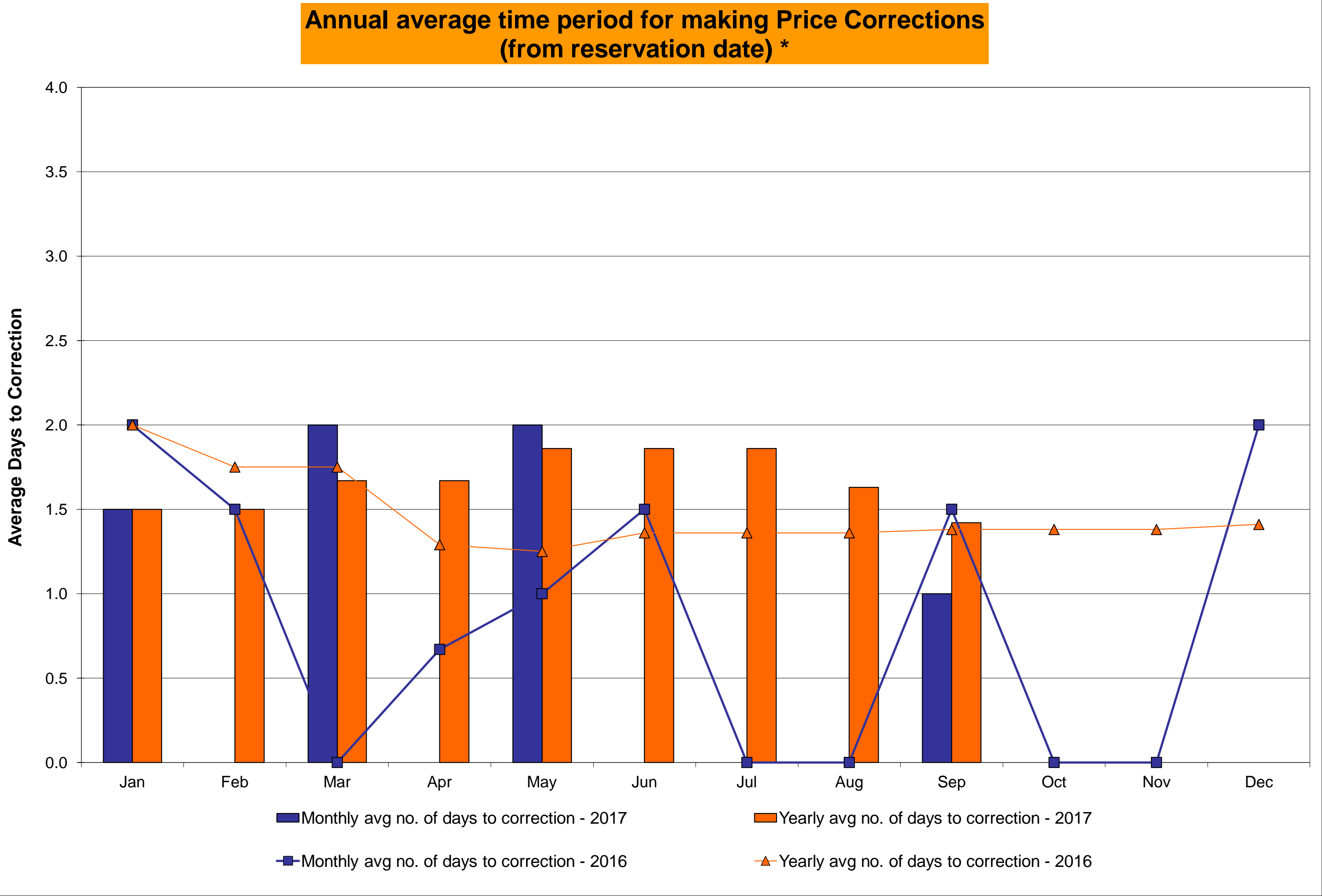
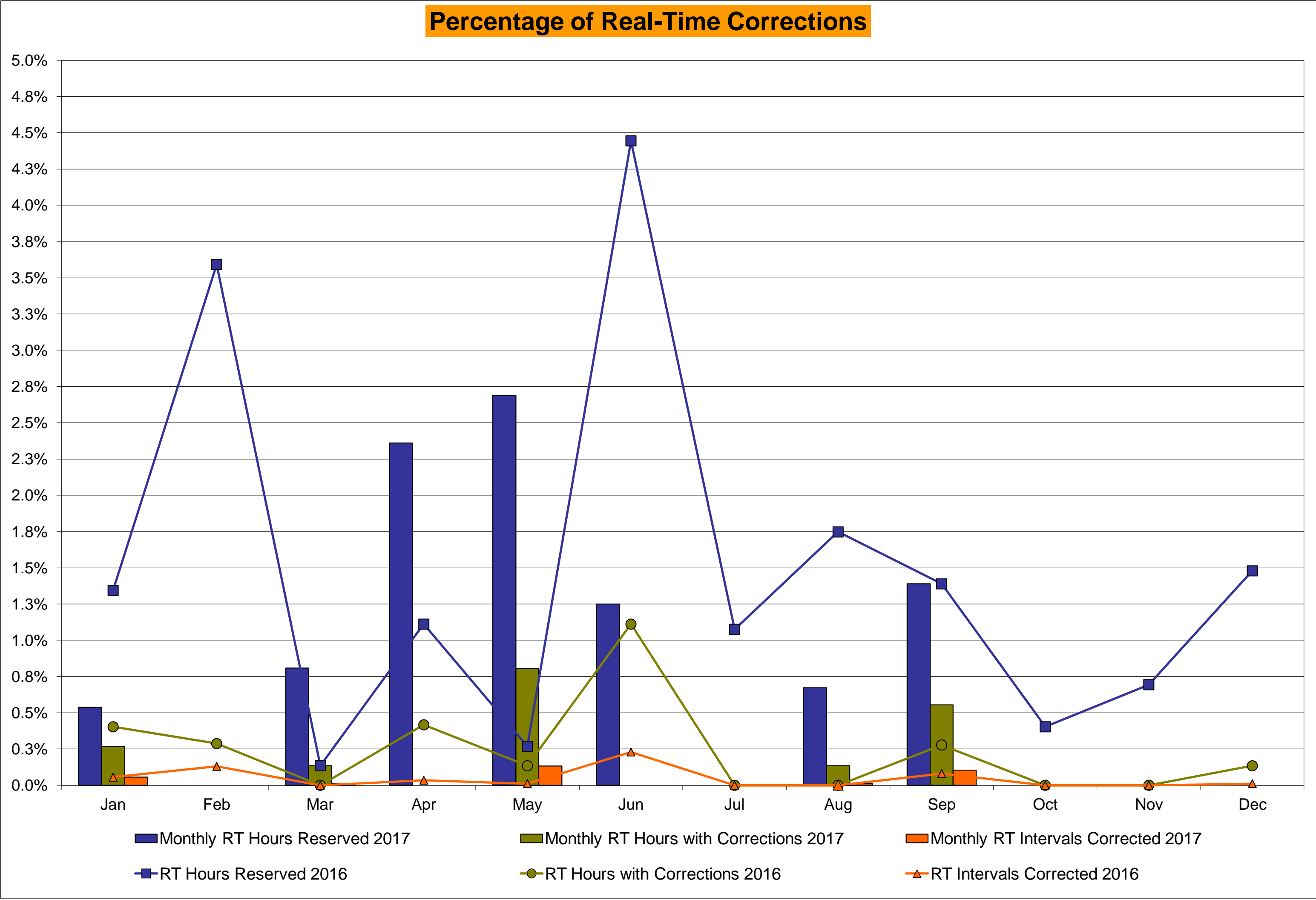
External Controllable Line: Hudson (PJM)



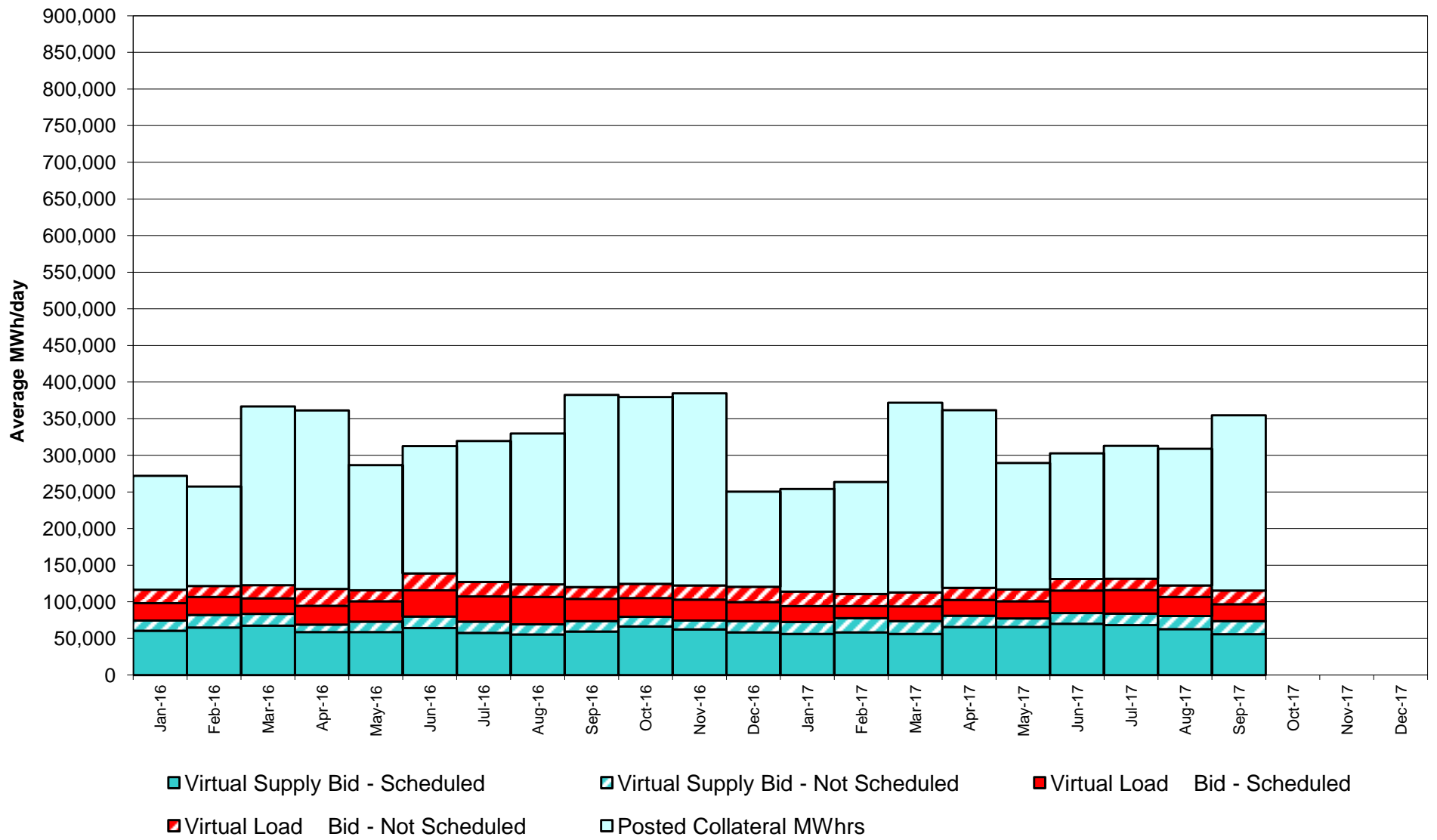
## NYISO Real Time Price Correction Statistics

<b>2017</b>		<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>
<b><u>Hour Corrections</u></b>													
Number of hours with corrections	in the month	2	0	1	0	6	0	0	1	4			
Number of hours	in the month	744	672	743	720	744	720	744	744	720			
% of hours with corrections	in the month	0.27%	0.00%	0.13%	0.00%	0.81%	0.00%	0.00%	0.13%	0.56%			
% of hours with corrections	year-to-date	0.27%	0.14%	0.14%	0.10%	0.25%	0.21%	0.18%	0.17%	0.21%			
<b><u>Interval Corrections</u></b>													
Number of intervals corrected	in the month	5	0	1	0	12	0	0	1	9			
Number of intervals	in the month	8,983	8,101	9,026	8,745	9,004	8,712	8,968	8,980	8,701			
% of intervals corrected	in the month	0.06%	0.00%	0.01%	0.00%	0.13%	0.00%	0.00%	0.01%	0.10%			
% of intervals corrected	year-to-date	0.06%	0.03%	0.02%	0.02%	0.04%	0.03%	0.03%	0.03%	0.04%			
<b><u>Hours Reserved</u></b>													
Number of hours reserved	in the month	4	0	6	17	20	9	0	5	10			
Number of hours	in the month	744	672	743	720	744	720	744	744	720			
% of hours reserved	in the month	0.54%	0.00%	0.81%	2.36%	2.69%	1.25%	0.00%	0.67%	1.39%			
% of hours reserved	year-to-date	0.54%	0.28%	0.46%	0.94%	1.30%	1.29%	1.10%	1.05%	1.08%			
<b><u>Days to Correction</u> *</b>													
Avg. number of days to correction	in the month	1.50	0.00	2.00	0.00	2.00	0.00	0.00	0.00	1.00			
Avg. number of days to correction	year-to-date	1.50	1.50	1.67	1.67	1.86	1.86	1.86	1.63	1.42			
<b><u>Days Without Corrections</u></b>													
Days without corrections	in the month	29	28	30	30	27	30	31	30	26			
Days without corrections	year-to-date	29	57	87	117	144	174	205	235	261			
<b>2016</b>		<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>
<b><u>Hour Corrections</u></b>													
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%
<b><u>Interval Corrections</u></b>													
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%
<b><u>Hours Reserved</u></b>													
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%
<b><u>Days to Correction</u> *</b>													
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
<b><u>Days Without Corrections</u></b>													
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

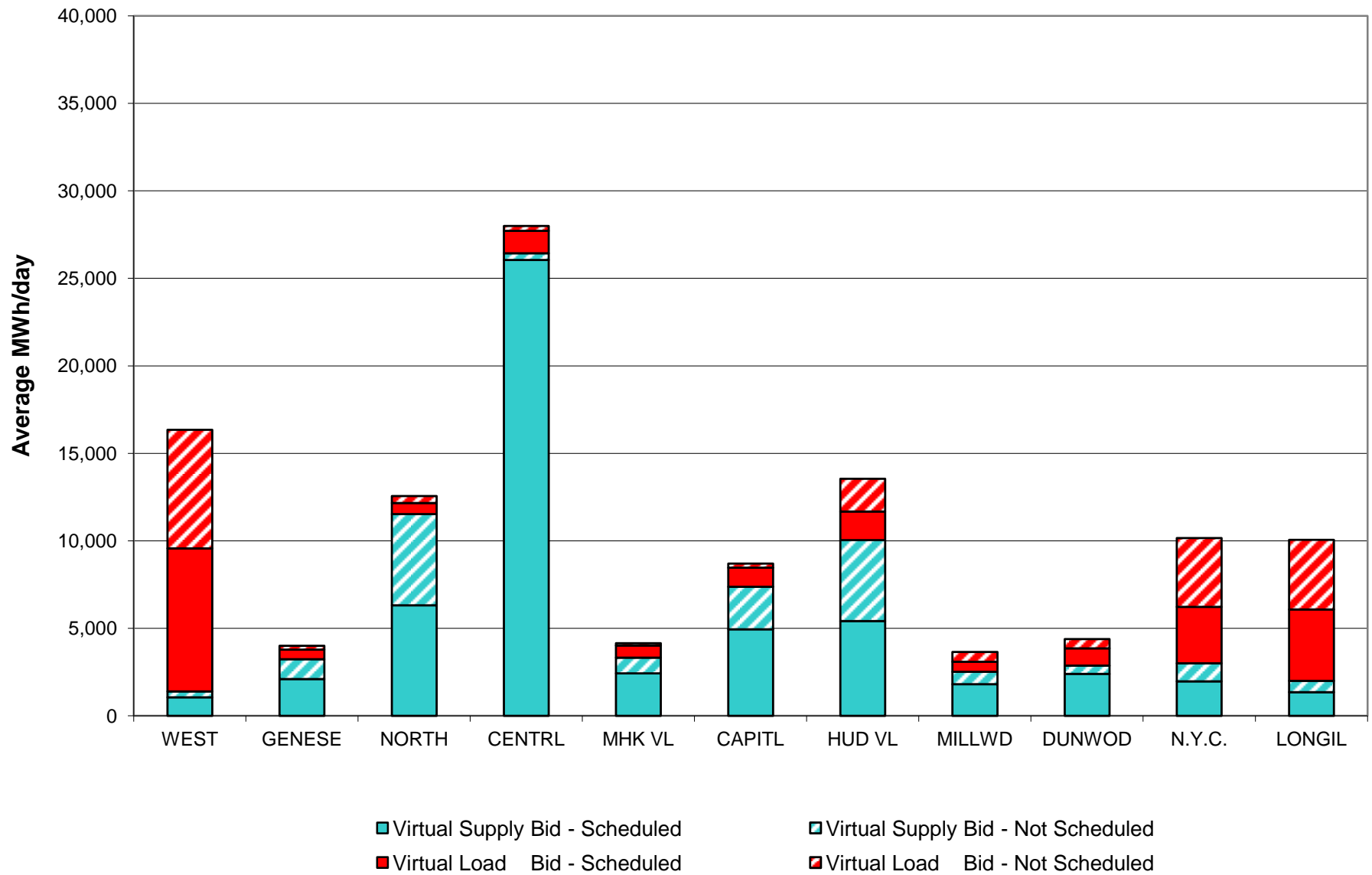
\* Calendar days from reservation date.



# **NYISO Virtual Trading Average MWh per day**



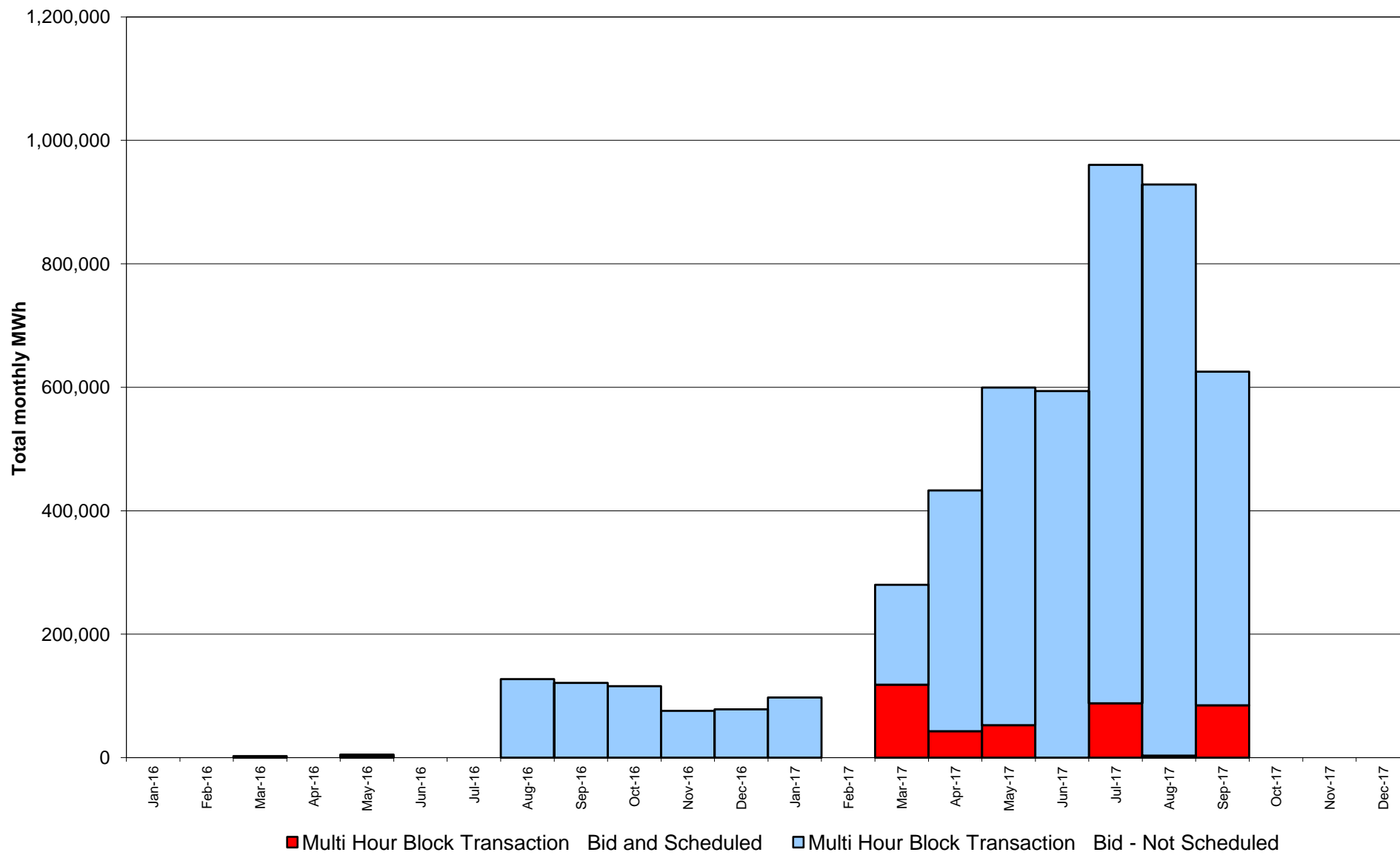
# Virtual Load and Supply Zonal Statistics through September 30, 2017



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

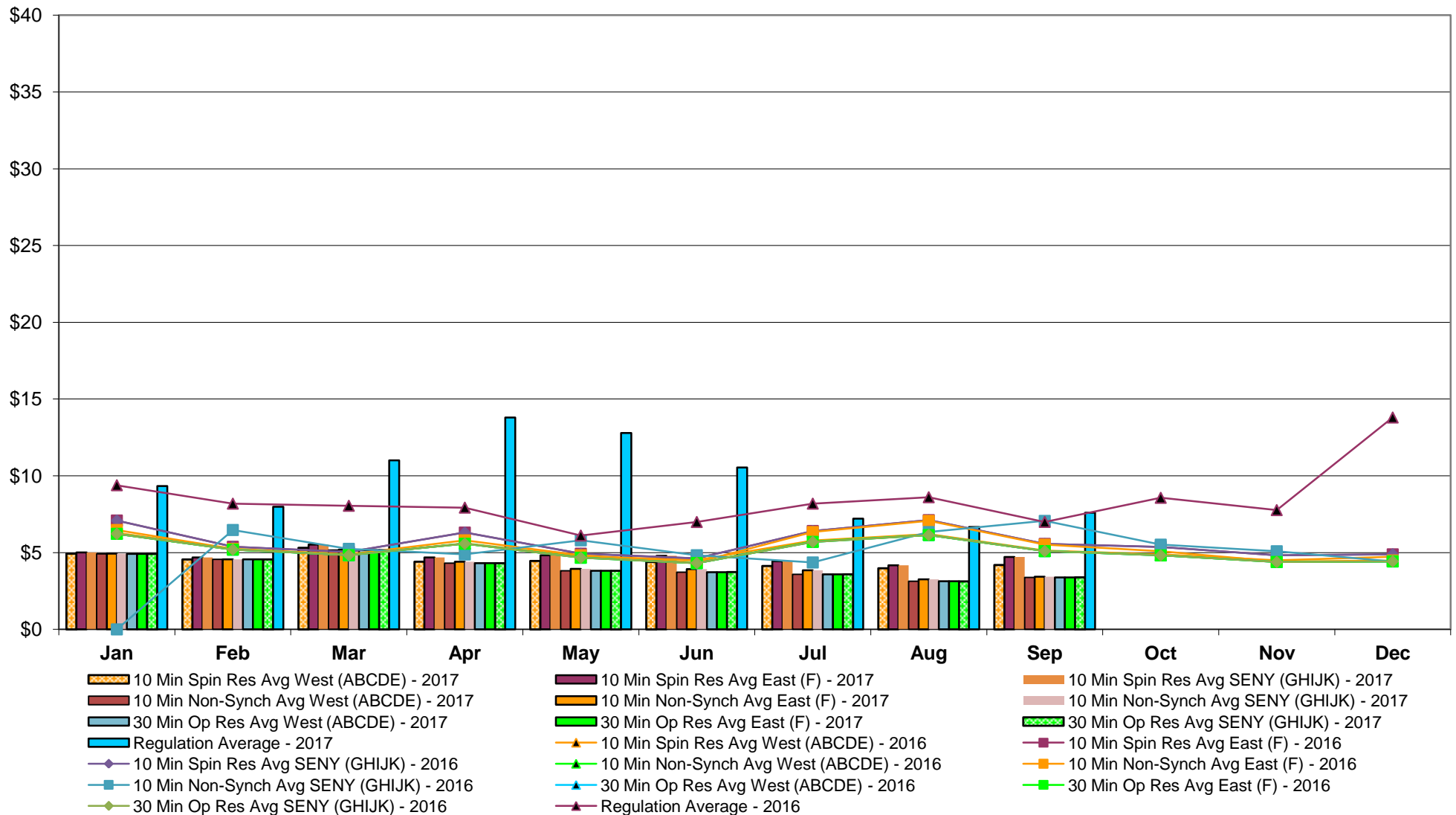
		Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled		Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled		Zone	Date	Scheduled	Not Scheduled
WEST	Jan-17	6,094	5,795	2,019	337		MHK VL	Jan-17	566	202	2,022	131		DUNWOD	Jan-17	304	832
	Feb-17	3,771	4,772	3,346	567			Feb-17	422	100	2,459	293			Feb-17	193	585
	Mar-17	6,522	4,960	2,386	616			Mar-17	407	186	3,594	378			Mar-17	436	763
	Apr-17	6,956	5,390	1,934	699			Apr-17	457	102	2,856	430			Apr-17	1,097	406
	May-17	8,468	5,775	1,261	546			May-17	532	105	2,786	401			May-17	1,215	155
	Jun-17	10,776	5,128	1,497	512			Jun-17	516	149	2,492	586			Jun-17	1,117	287
	Jul-17	10,883	6,588	2,341	538			Jul-17	625	174	3,324	468			Jul-17	2,287	281
	Aug-17	9,289	6,104	3,043	595			Aug-17	667	98	2,915	694			Aug-17	875	500
	Sep-17	8,186	6,774	1,056	334			Sep-17	700	125	2,432	892			Sep-17	987	526
	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
	Feb-17	276	600	3,782	3,206			Feb-17	1,115	409	3,432	3,798			Feb-17	4,622	5,309
	Mar-17	480	838	3,806	3,419			Mar-17	1,409	528	5,186	2,484			Mar-17	4,052	5,826
	Apr-17	353	656	4,074	2,880			Apr-17	1,160	549	5,589	1,973			Apr-17	4,374	4,331
	May-17	393	128	4,096	2,027			May-17	1,232	454	5,697	1,635			May-17	3,357	4,679
	Jun-17	516	169	2,920	2,119			Jun-17	779	372	6,479	1,916			Jun-17	8,293	4,163
	Jul-17	335	190	3,494	1,622			Jul-17	450	290	5,972	2,754			Jul-17	8,732	2,726
	Aug-17	505	119	3,186	1,912			Aug-17	818	399	6,112	2,682			Aug-17	5,911	2,890
	Sep-17	541	230	2,105	1,132			Sep-17	1,093	240	4,943	2,426			Sep-17	3,224	3,937
	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
	Feb-17	465	338	7,504	4,006			Feb-17	1,292	915	6,266	3,873			Feb-17	3,341	3,127
	Mar-17	426	311	7,227	4,576			Mar-17	659	1,048	5,427	2,652			Mar-17	4,133	3,779
	Apr-17	414	138	7,520	4,435			Apr-17	1,575	871	5,708	2,333			Apr-17	3,706	3,309
	May-17	555	280	7,848	2,436			May-17	1,202	1,006	6,608	2,378			May-17	4,232	2,893
	Jun-17	552	468	6,955	2,920			Jun-17	836	823	6,861	3,317			Jun-17	4,848	2,532
	Jul-17	586	533	6,883	2,889			Jul-17	1,140	726	6,184	4,114			Jul-17	4,846	2,137
	Aug-17	625	294	7,799	4,744			Aug-17	1,059	1,617	7,576	5,051			Aug-17	4,257	2,711
	Sep-17	626	396	6,315	5,216			Sep-17	1,623	1,874	5,422	4,625			Sep-17	4,083	3,980
	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
	Feb-17	707	177	20,639	320			Feb-17	202	74	1,555	164			Feb-17	16,405	16,406
	Mar-17	979	605	18,610	518			Mar-17	454	157	1,452	158			Mar-17	19,956	19,002
	Apr-17	1,079	505	30,148	519			Apr-17	595	328	1,228	149			Apr-17	21,767	16,586
	May-17	1,472	492	30,724	312			May-17	662	255	1,474	195			May-17	23,320	16,222
	Jun-17	1,839	672	35,205	380			Jun-17	663	1,057	2,019	340			Jun-17	30,736	15,820
	Jul-17	1,687	435	32,177	303			Jul-17	809	1,316	1,865	361			Jul-17	32,377	15,396
	Aug-17	1,566	174	25,045	258			Aug-17	514	643	1,923	272			Aug-17	26,086	15,550
	Sep-17	1,275	291	26,053	381			Sep-17	574	561	1,815	701			Sep-17	22,912	18,933
	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

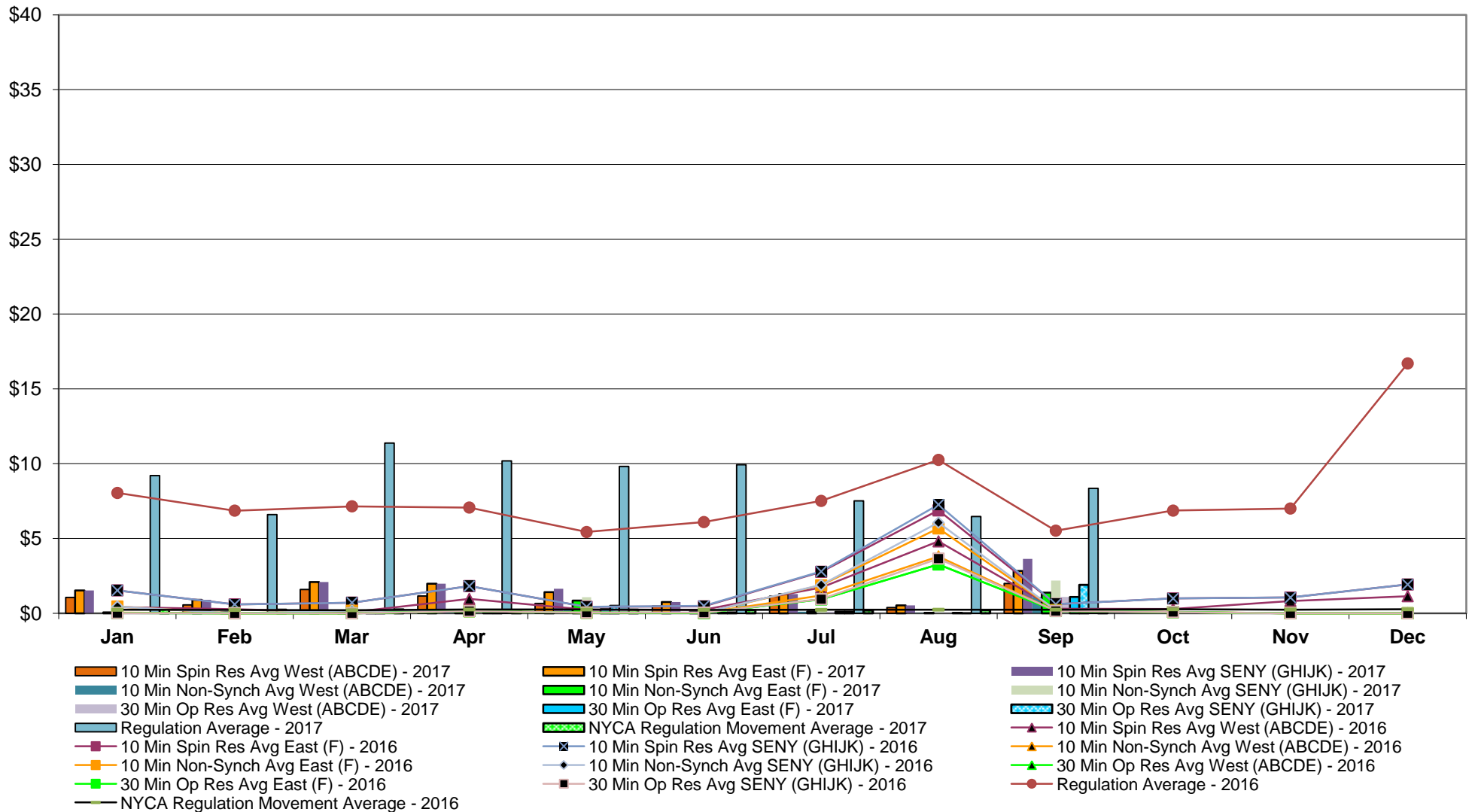




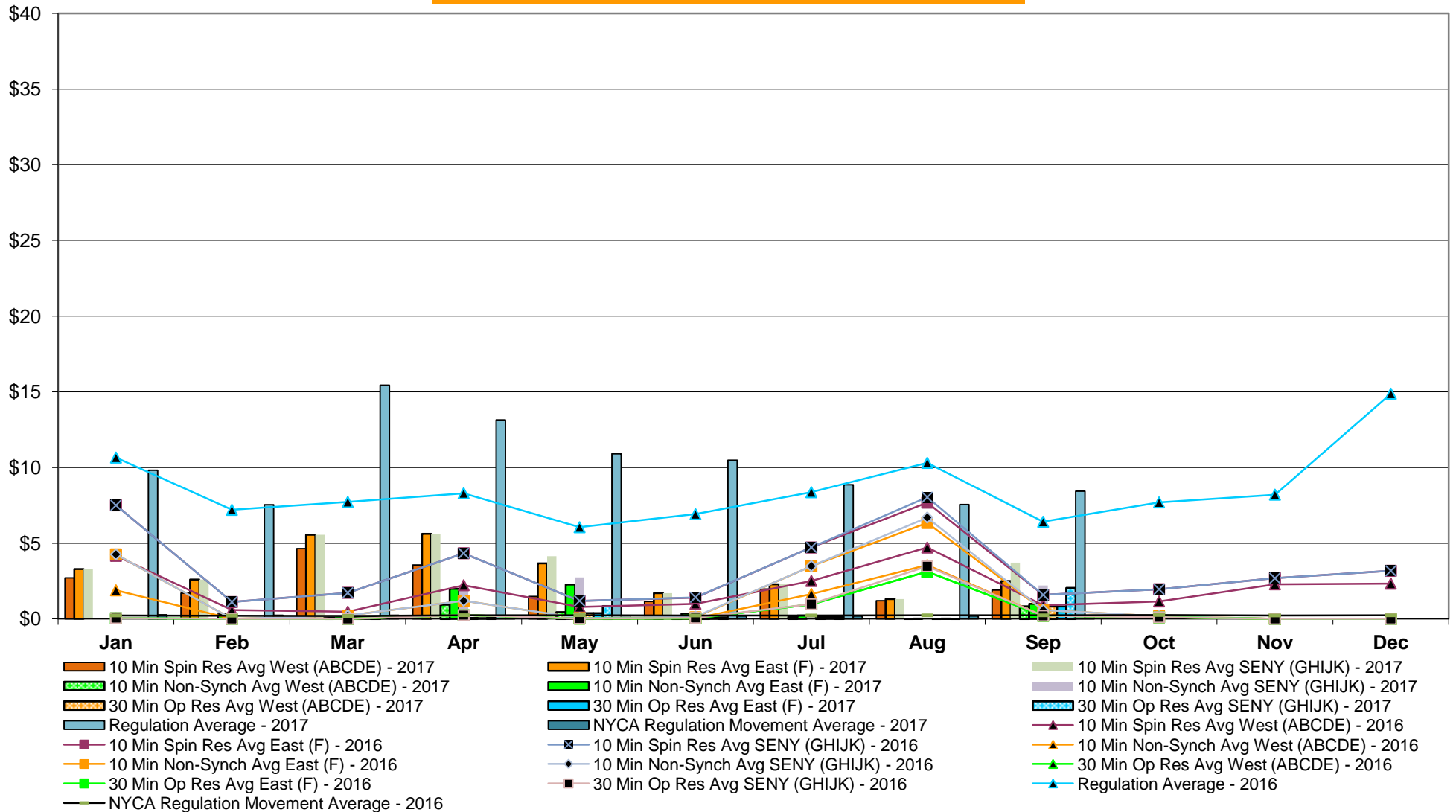
# **NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2016 - 2017**



## NYISO Monthly Average Ancillary Service Prices RTC Market 2016 - 2017



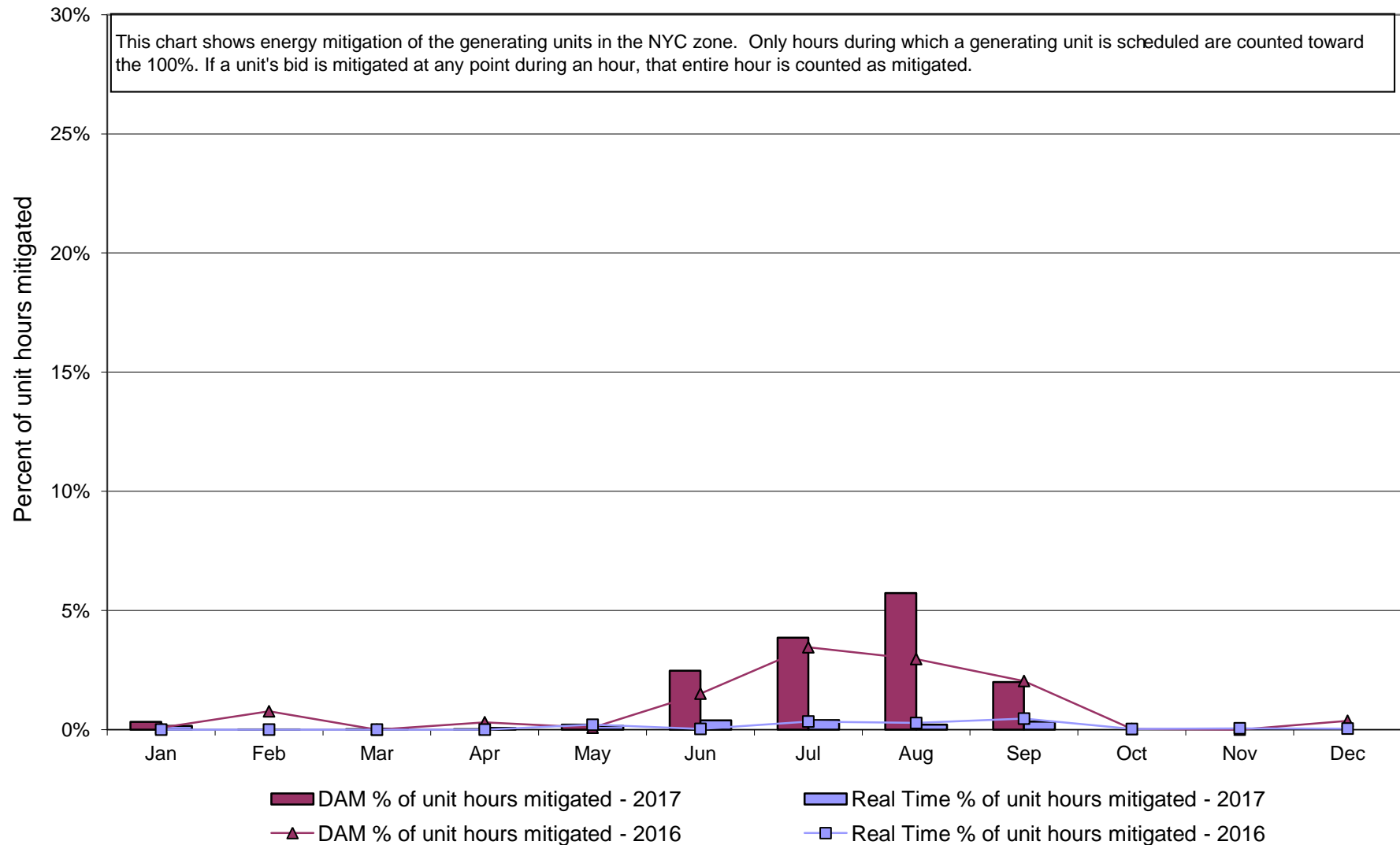
## NYISO Monthly Average Ancillary Service Prices Real Time Market 2016 - 2017



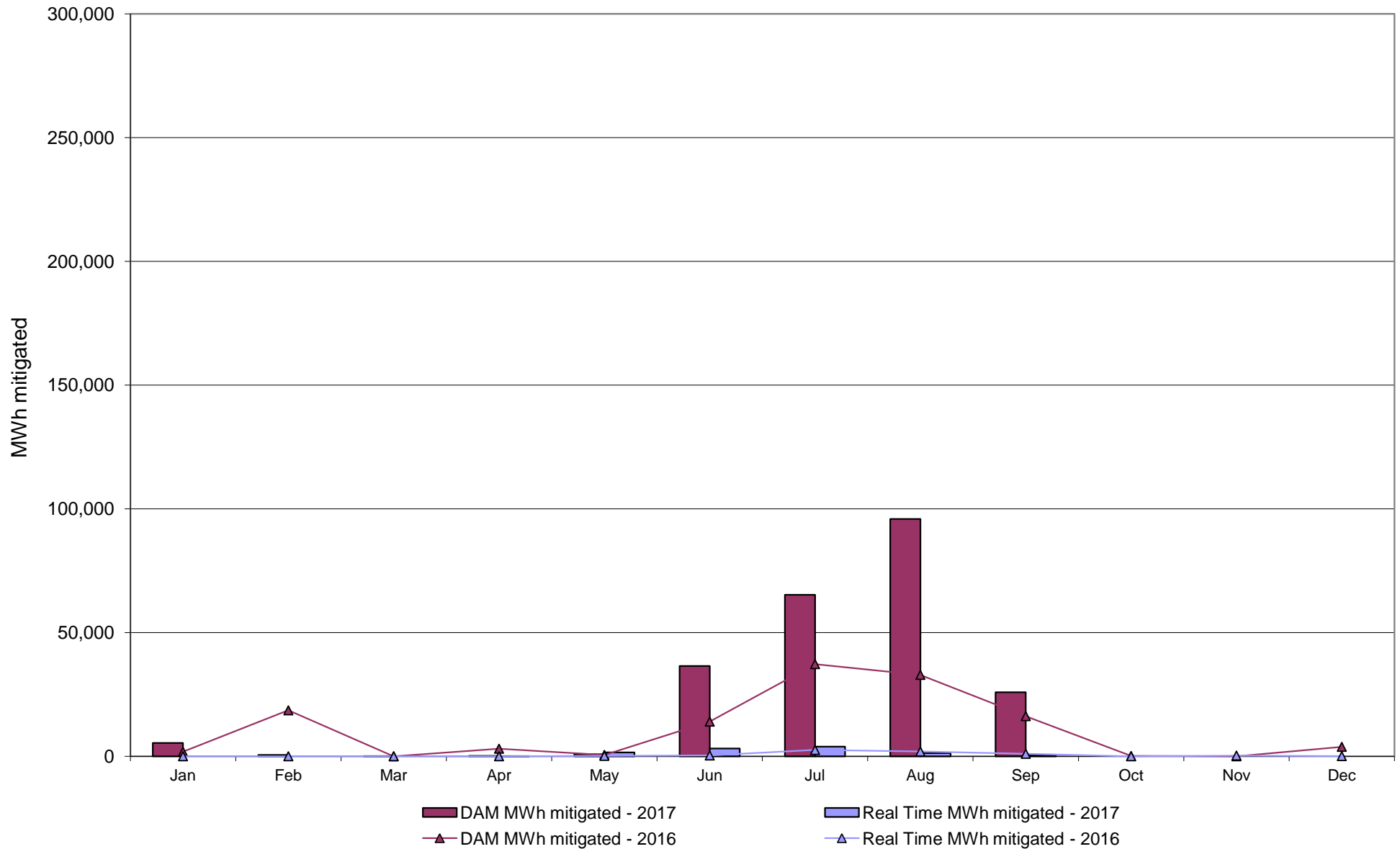
## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

<b>2017</b>	<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>
<b><u>Day Ahead Market</u></b>												
10 Min Spin SENY (GHIJK)	5.01	4.68	5.53	4.68	4.82	4.79	4.44	4.18	4.72			
10 Min Spin East (F)	5.01	4.68	5.53	4.68	4.82	4.79	4.44	4.18	4.72			
10 Min Spin West (ABCDE)	4.94	4.56	5.31	4.41	4.45	4.39	4.13	3.98	4.19			
10 Min Non Synch SENY (GHIJK)	4.94	4.57	5.20	4.41	3.95	3.92	3.85	3.26	3.43			
10 Min Non Synch East (F)	4.94	4.57	5.20	4.41	3.95	3.92	3.85	3.26	3.43			
10 Min Non Synch West (ABCDE)	4.92	4.56	5.17	4.31	3.82	3.73	3.59	3.13	3.39			
30 Min SENY (GHIJK)	4.92	4.56	5.17	4.31	3.82	3.73	3.59	3.13	3.39			
30 Min East (F)	4.92	4.56	5.17	4.31	3.82	3.73	3.59	3.13	3.39			
30 Min West (ABCDE)	4.92	4.56	5.17	4.31	3.82	3.73	3.59	3.13	3.39			
Regulation	9.34	7.99	11.01	13.80	12.79	10.55	7.22	6.67	7.60			
<b><u>RTC Market</u></b>												
10 Min Spin SENY (GHIJK)	1.53	0.89	2.08	1.97	1.64	0.75	1.28	0.52	3.63			
10 Min Spin East (F)	1.53	0.89	2.08	1.97	1.41	0.75	1.28	0.52	2.83			
10 Min Spin West (ABCDE)	1.06	0.55	1.58	1.16	0.65	0.47	1.13	0.38	1.99			
10 Min Non Synch SENY (GHIJK)	0.06	0.06	0.10	0.14	1.08	0.13	0.13	0.02	2.18			
10 Min Non Synch East (F)	0.06	0.06	0.10	0.14	0.85	0.13	0.13	0.02	1.38			
10 Min Non Synch West (ABCDE)	0.00	0.00	0.10	0.07	0.31	0.05	0.11	0.02	1.09			
30 Min SENY (GHIJK)	0.00	0.00	0.10	0.03	0.50	0.05	0.11	0.02	1.89			
30 Min East (F)	0.00	0.00	0.10	0.03	0.27	0.05	0.11	0.02	1.09			
30 Min West (ABCDE)	0.00	0.00	0.10	0.03	0.27	0.05	0.11	0.02	1.09			
Regulation	9.21	6.59	11.37	10.18	9.82	9.92	7.51	6.47	8.35			
NYCA Regulation Movement	0.27	0.24	0.25	0.22	0.24	0.21	0.19	0.20	0.21			
<b><u>Real Time Market</u></b>												
10 Min Spin SENY (GHIJK)	3.29	2.61	5.56	5.62	4.14	1.71	2.29	1.31	3.72			
10 Min Spin East (F)	3.29	2.61	5.56	5.62	3.67	1.71	2.29	1.31	2.51			
10 Min Spin West (ABCDE)	2.71	1.71	4.65	3.56	1.48	1.15	1.98	1.20	1.91			
10 Min Non Synch SENY (GHIJK)	0.00	0.31	0.17	1.99	2.75	0.36	0.23	0.01	2.21			
10 Min Non Synch East (F)	0.00	0.31	0.17	1.99	2.28	0.36	0.23	0.01	1.00			
10 Min Non Synch West (ABCDE)	0.00	0.00	0.13	0.95	0.44	0.10	0.13	0.01	0.83			
30 Min SENY (GHIJK)	0.00	0.00	0.12	0.06	0.85	0.10	0.13	0.01	2.05			
30 Min East (F)	0.00	0.00	0.12	0.06	0.38	0.10	0.13	0.01	0.83			
30 Min West (ABCDE)	0.00	0.00	0.12	0.06	0.38	0.10	0.13	0.01	0.83			
Regulation	9.83	7.54	15.44	13.15	10.91	10.48	8.87	7.56	8.44			
NYCA Regulation Movement	0.27	0.24	0.25	0.20	0.22	0.19	0.19	0.20	0.21			
<b>2016</b>	<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>
<b><u>Day Ahead Market</u></b>												
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
<b><u>RTC Market</u></b>												
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
<b><u>Real Time Market</u></b>												
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

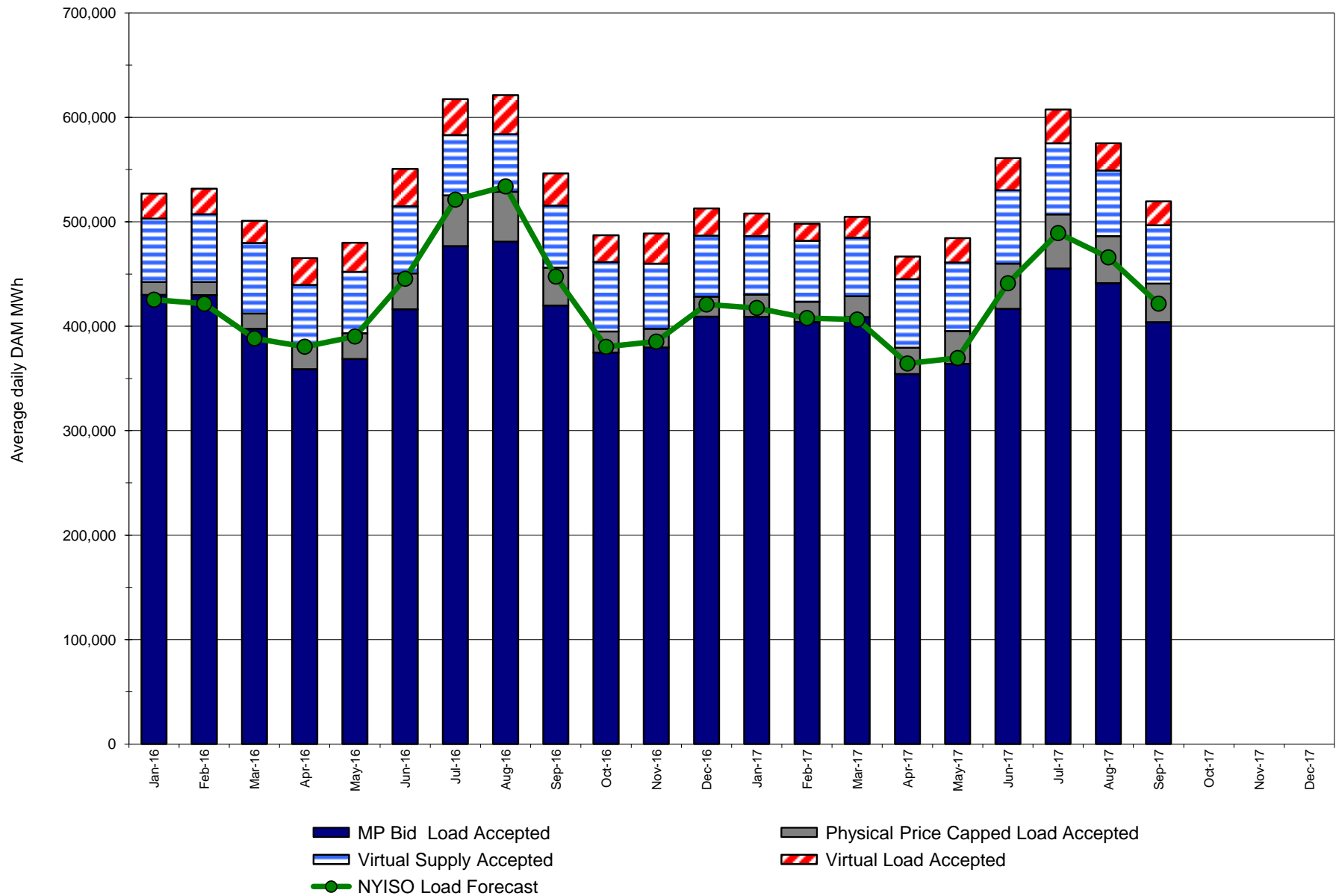
## NYISO In City Energy Mitigation - AMP (NYC Zone) 2016 - 2017 Percentage of committed unit-hours mitigated



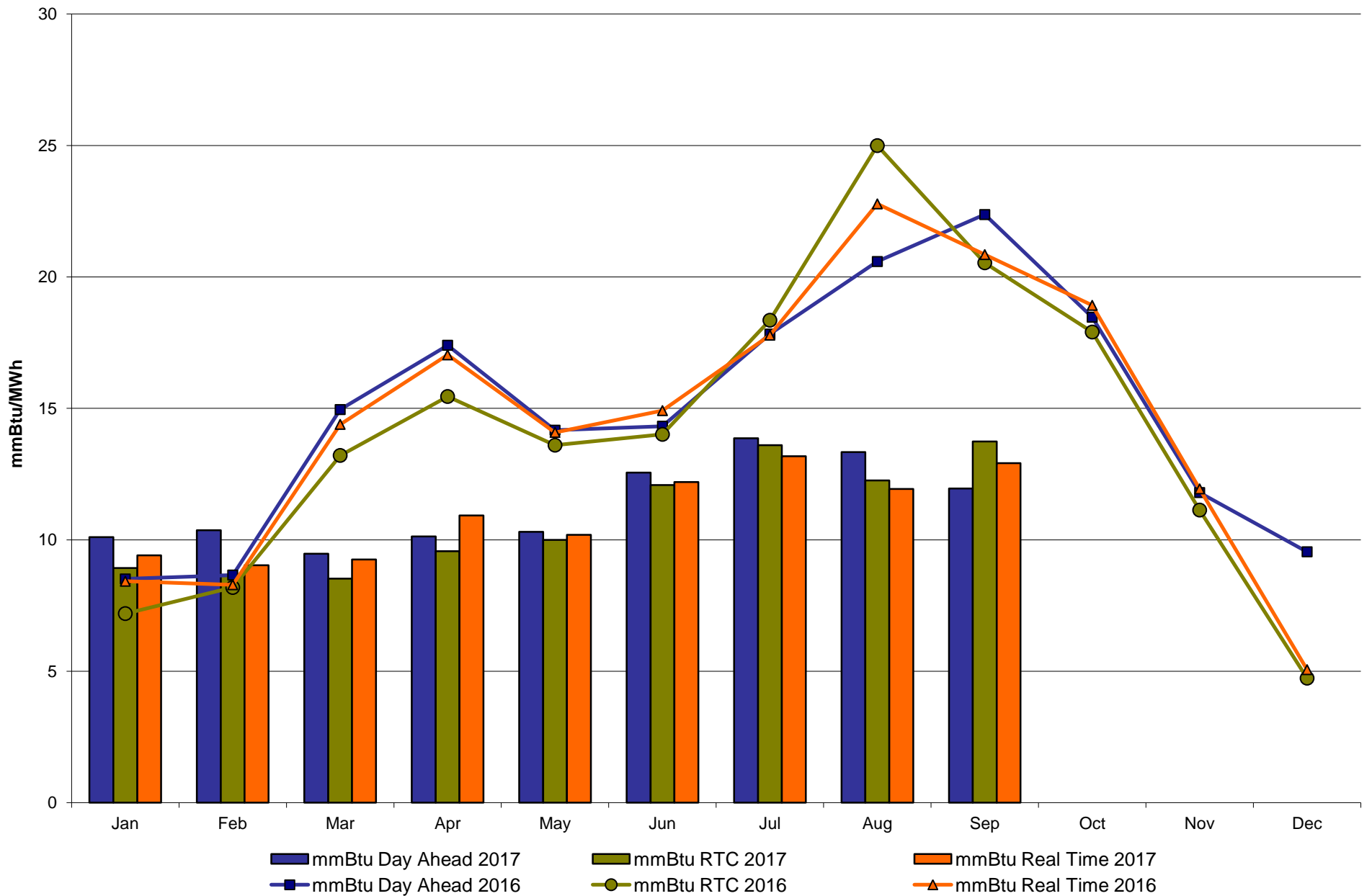
**NYISO In City Energy Mitigation (NYC Zone) 2016 - 2017**  
**Monthly megawatt hours mitigated**



# NYISO Average Daily DAM Load Bid Summary

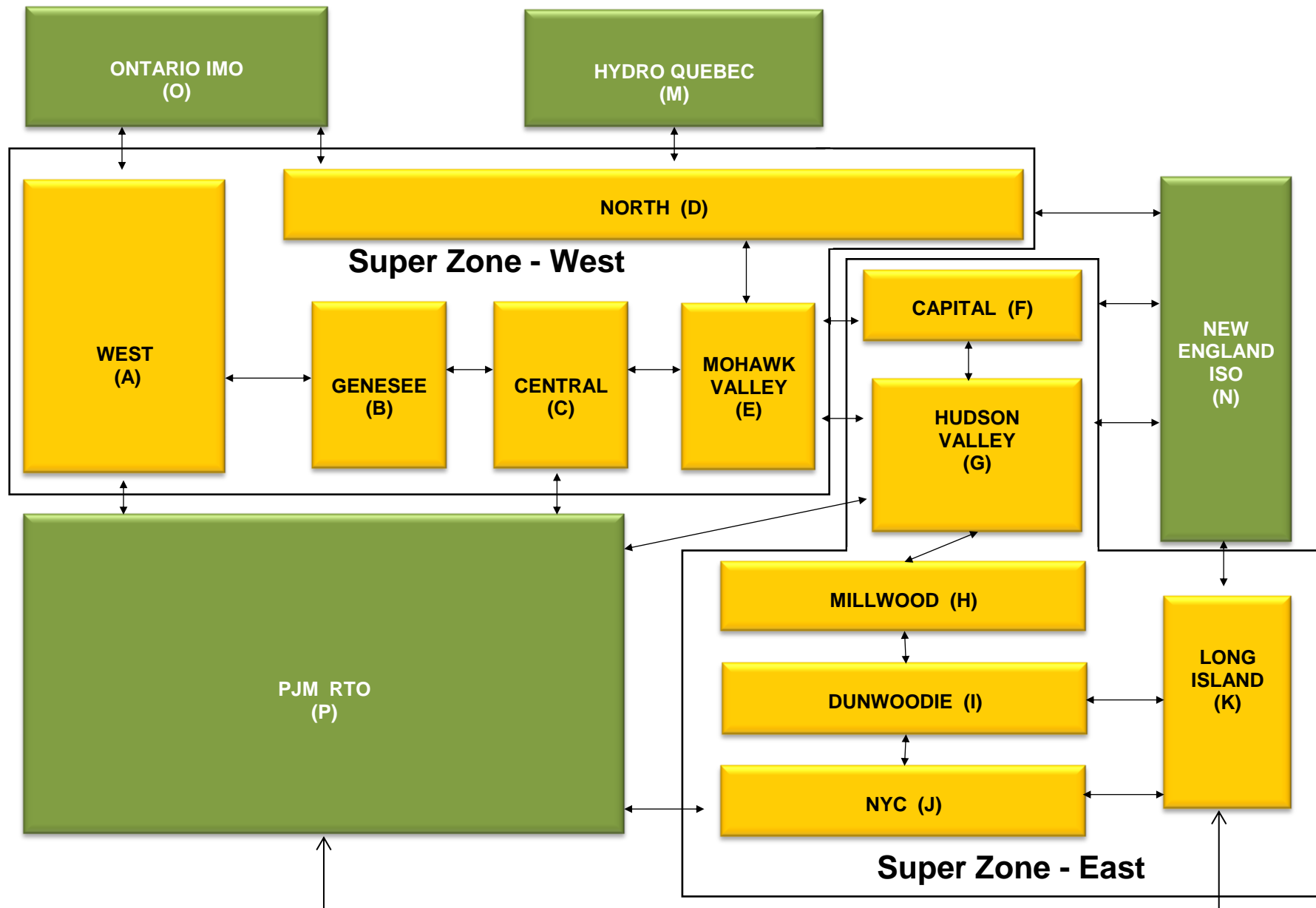


# Monthly Implied Heat Rate 2016-2017





# NYISO LBMP ZONES



### Billing Codes for Chart C

<u>Chart - C Category Name</u>	<u>Billing Code</u>	<u>Billing Category Name</u>
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

<b>Filing Due Date</b>	<b>Upcoming Compliance Filings (Description)</b>	<b>Docket Number</b>

### Recently Issued Orders

<b>Filing Date</b>	<b>Filing Summary (Order Issued)</b>	<b>Docket Number</b>	<b>Order Date</b>	<b>Order Summary</b>
1/06/2017	NYISO tariff waiver request re: transmission constraint pricing and the definition of Transmission Shortage Cost	ER17-758-000	9/27/17	Order granted the waiver request effective from 02/11/2016 to 06/20/2017, as requested
06/21/2017 08/11/2017	NYISO 205 filing re: OATT Rate Schedule 1 revisions for Ramapo Phase Angle Regulator cost recovery	ER17-1879-000 ER17-1879-001	09/15/2017	Order accepted revisions effective 07/01/2017, as requested
08/04/2017	NYISO 205 filing re: OATT Rate Schedule 1 revisions to remove the cost recovery mechanism for the Bunce Creek Phase Angle Regulators	ER17-2240-000	09/20/2017	Order accepted revisions effective 10/03/2017, as requested
08/09/2017	NYISO 205 filing re: black start and system restoration service revisions	ER17-2271-000	10/06/2017	Order accepted revisions effective 10/08/2017, as requested
08/11/2017	NYISO 205 filing re: tariff revisions addressing the testing of automated fuel swap capability	ER17-2286-000	09/20/2017	Order accepted revisions effective 11/01/2017, as requested

### Recently Submitted Filings

<b>Filing Date</b>	<b>Filing Summary</b>	<b>Docket Number</b>
10/06/2017	NYISO comments to Regional Greenhouse Gas Initiative re: proposed Policy Case for 2017 and the proposed Model Rule	No docket no.
10/09/2017	NYISO filing to FERC and NYPSC re: notification of emergency state in the NYCA on 10/08/2017	EY18-1-000
10/10/2017	ISO-RTO Council ("IRC") filing re: supplemental NOPR comments concerning primary frequency response	RM16-6-000
10/16/2017	NYISO 205 filing re: comprehensive interconnection process revisions	ER18-80-000