

# Market Operations Report

Rana Mukerji

Senior Vice President, Market Structures New York Independent System Operator

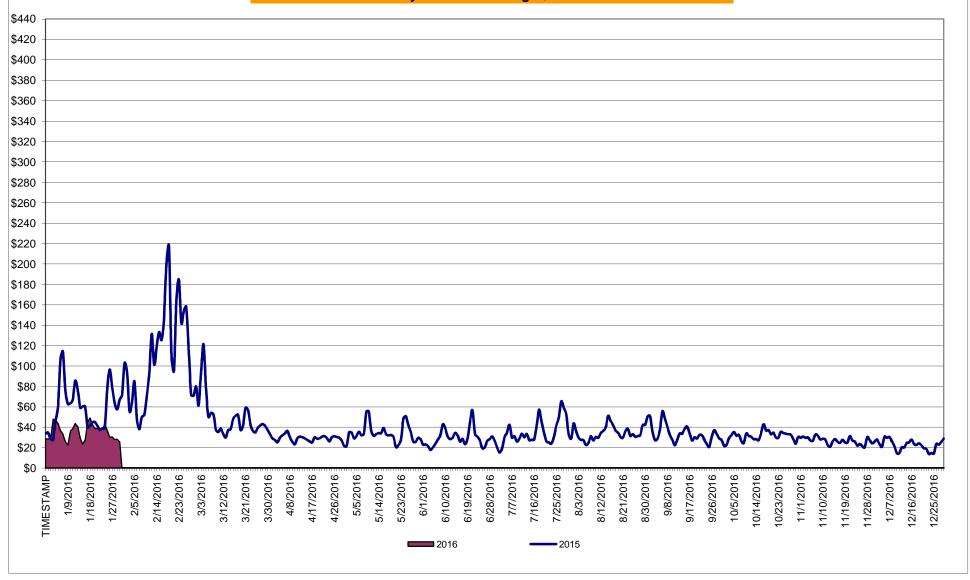
Business Issues Committee Meeting February 10, 2016

# Market Performance Highlights for January 2016

- LBMP for January is \$34.29/MWh; higher than \$20.90/MWh in December 2015 and lower than \$59.61/MWh in January 2015.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to December.
- January 2016 average year-to-date monthly cost of \$36.42/MWh is a 40% decrease from \$60.91/MWh in January 2015.
- Average daily sendout is 439 GWh/day in January; higher than 408 GWh/day in December 2015 and lower than 462 GWh/day in January 2015.
- Natural gas prices were higher compared to the previous month and distillate prices were lower compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$3.77/MMBtu, up 136% from \$1.60/MMBtu in December.
    - Natural gas prices are down 52% year-over-year
  - Jet Kerosene Gulf Coast was \$6.95/MMBtu, down from \$8.01/MMBtu in December.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$7.05/MMBtu, down from \$8.13/MMBtu in December.
    - Distillate prices are down 40% year-over-year
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.43)/MWh; lower than (\$0.07)/MWh in December.
    - The Local Reliability Share is \$0.09/MWh, lower than \$0.12 in December.
    - The Statewide Share is (\$0.52)/MWh, lower than (\$0.18)/MWh in December.
  - TSA \$ per NYC MWh is \$0.00/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than December.

### Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\*

2015 Annual Average \$44.09MWh January 2015 YTD Average \$60.91/MWh January 2016 YTD Average \$36.42/MWh

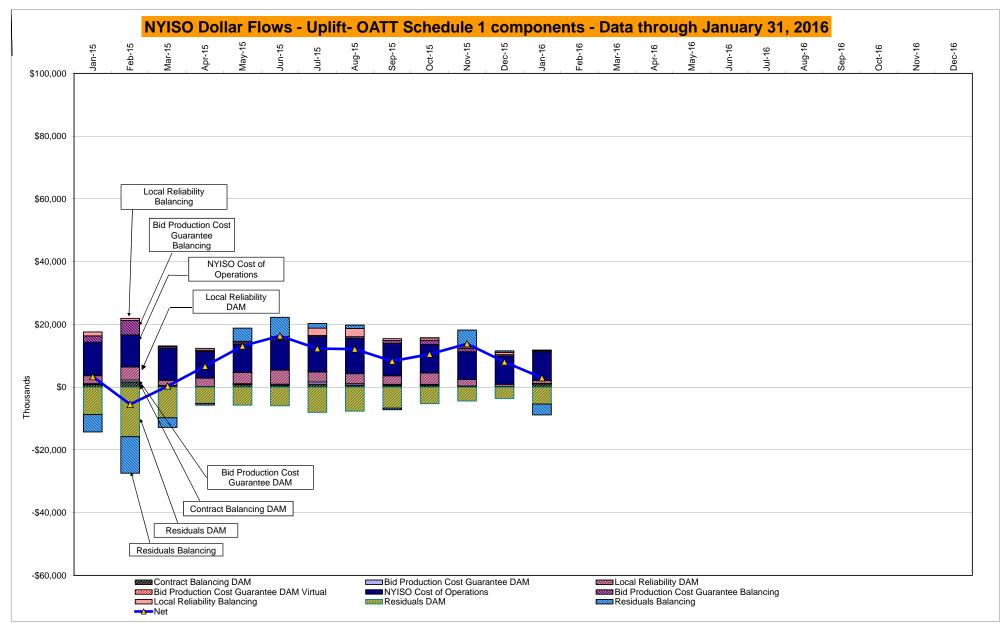


<sup>\*</sup> Excludes ICAP payments.

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

LIMP   S4-29	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>	November	<u>December</u>
Regulation 0.12 NYISO Cost of Operations 0.64 FERC Fee Recovery Uplitt Uplitt-Local Pictably Statemark Cost of	LBMP	34.29											
Regulation NYISO Cost of Operations 064 FERC Fee Recovery 0.09													
NYISO Cost of Operations FERC Fee Recovery Upiff: Upiff: Cocal Reliability Share Upiff: Statewide Share Upiff: Sta													
FERC Fee Recovery Upilit (0.43) Upilit: Local Reliability Share Upilit: Statewide Share Voltage Support and Black Start  Avg YTD Cost  36.42  TSA \$ per NYC MWh  0.00  2015  LIBMP 5961 114.37 52.09 28.36 32.98 28.20 44.77 33.09 34.40 30.03 24.80 20.90 Normal Research  NTAC 0.32 0.35 0.41 0.64 0.66 0.80 0.54 0.60 0.80 0.54 0.60 0.83 0.54 0.68 1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.0													
Uplift: Local Reliability Share Uplift: Slatewide Share Uplift: Uplift: Slatewide Share Uplift: Uplift: Slatewide Share Uplift: Uplift: Uplift: Slatewide Share Uplift: Uplift: Slatewide Share Uplift: Uplift: Uplift: Slatewide Share Uplift: Uplift	•												
Upliff: Statewind Share Upliff: Upliff	•												
Voltage Support and Black Start  Avg Monthly Cost  36.42  TSA \$per NYC MWh  0.00  2015  LBMP	•	, ,											
Avg YTD Cost 36.42  TSA \$ per NYC MWh  0.00  2015  LBMP 59.61 114.37 52.09 28.36 32.98 28.20 34.77 33.09 34.40 30.03 24.80 20.90 NTAC 0.32 0.35 0.41 0.64 0.66 0.66 0.66 0.66 0.66 0.66 0.66	Uplift: Statewide Share	(0.52)											
Avg YTD Cost 36.42  TSA \$ per NYC MWh 0.00  2015    LBMP   59.61   114.37   52.09   28.36   32.98   28.20   34.77   33.09   34.40   30.03   24.80   20.99     NTAC   0.32   0.35   0.41   0.64   0.56   0.80   0.54   0.66   0.63   0.54   0.68   1.06     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   0.11   0.12   0.10     NYISO Cost of Operations   0.70   0.70   0.70   0.70   0.70   0.70   0.70   0.70   0.70   0.70   0.70     Uplift   0.48)   1.08   0.68)   0.68)   0.615   0.26   0.33   0.34   0.33   0.14   0.04     Uplift   0.48)   0.41   0.41   0.41   0.41   0.42   0.05   0.45   0.45   0.45   0.45     Uplift   0.48)   0.47   0.48   0.47   0.48   0.48   0.48   0.48   0.48     Uplift   0.48   0.48   0.48   0.48   0.48   0.48   0.48   0.48   0.48   0.48     Uplift   0.48	Voltage Support and Black Start	0.35											
TSA\$ per NYC MWh   0.00	Avg Monthly Cost	36.42											
LBMP   S9.61   114.37   S2.09   28.36   32.98   28.20   34.77   33.09   34.40   30.03   24.80   20.90	Avg YTD Cost	36.42											
LBMP	TSA \$ per NYC MWh	0.00											
NTAC   0.32   0.35   0.41   0.64   0.56   0.80   0.54   0.60   0.63   0.54   0.68   1.06	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>	October	November	December
Reserve	LBMP	59.61	114.37	52.09	28.36	32.98	28.20	34.77	33.09	34.40	30.03	24.80	20.90
Regulation   0.10   0.18   0.11   0.12   0.10   0.13   0.12   0.10   0.12   0.10   0.12   0.10   0.12   0.13   0.13	NTAC		0.35	0.41	0.64	0.56	0.80	0.54		0.63	0.54	0.68	1.06
NYISO Cost of Operations Uplift (0.48) (1.08) (0.68) (0.65) 0.26 0.33 0.04 0.03 (0.15) 0.11 0.40 (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 0.19 0.12 Uplift: Statewide Share (0.73) (1.41) (0.81) (0.42) (0.05) (0.04) (0.30) (0.33) (0.37) (0.35 0.36 0.22 0.33 0.19 0.12 Uplift: Statewide Share (0.73) (1.41) (0.81) (0.42) (0.05) (0.04) (0.30) (0.33) (0.37) (0.32) (0.32)													
Uplift: Local Reliability Share U.25													
Uplift: Local Reliability Share Uplift: Statewide Shar													
Uplift: Statewide Share   (0.73)	•	` ,	, ,		, ,					,			
Voltage Support and Black Start 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39	1 ,												
Avg Monthly Cost 60.91 115.27 53.58 30.41 35.37 30.79 36.84 35.14 36.35 32.17 27.58 23.70  Avg YTD Cost 60.91 87.74 76.64 66.82 60.96 56.02 52.77 50.20 48.59 47.17 45.65 44.09  TSA \$ per NYC MWh 0.00 0.00 0.00 0.00 0.01 0.07 0.50 0.07 0.06 0.01 0.00 0.00 0.00  2014		, ,	` ,		` ,					` ,			, ,
Avg YTD Cost 60.91 87.74 76.64 66.82 60.96 56.02 52.77 50.20 48.59 47.17 45.65 44.09  TSA \$ per NYC MWh 0.00 0.00 0.00 0.00 0.01 0.07 0.50 0.07 0.06 0.01 0.00 0.00 0.00  2014													
TSA \$ per NYC MWh  0.00	Avg Monthly Cost	60.91	115.27	55.56	30.41	35.37	30.79	30.04	35.14	30.33	32.17	21.30	23.70
2014  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	Avg YTD Cost	60.91	87.74	76.64	66.82	60.96	56.02	52.77	50.20	48.59	47.17	45.65	44.09
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 0.26 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	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
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 0.26 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	2014	lanuary	Fobruary	March	April	May	luno	luke	August	Sontombor	Octobor	November	Docombor
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	-												
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 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>													
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         0.26         0.26         0.24 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>													
NYISO Cost of Operations 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69													
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) (0.45) (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	<del>_</del>	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: Statewide Share Voltage Support and Black Start         (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	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)
Voltage Support and Black Start         0.36	Uplift: Local Reliability Share	1.43	0.75		0.15	0.51	0.32	0.29	0.27	0.26	0.26	0.24	0.13
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					, ,		` ,			,			(0.33)
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	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
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	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
		0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.00	0.42			

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 2/8/2016 3:35 PM



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**

DAM SERIOR METERORY Sales	14,760,915   54%   63
DAM ISS Internal LBMP Energy Sales	S
DAM Bilateral Internal Bilaterals   34%   24%	Section   Sect
DAM Bilateral Internal Bilaterals   34%   24%	Section   Sect
DAM Bilaterial   ImportNon-IBMP Marker Bilaterials   2%   2%   2%   2%   2%   2%   2%   2	riket Bilaterals
DAM Bilateral - ExportNon-LBMP Market Bilaterals	rket Bilaterals 2% rais 2%
DAM Bilateral - ExportNon-LBMP Market Bilaterals	rket Bilaterals 2%
Balancing Energy Market MWh	S22,919
Balancing Energy External TC LBMP Energy Sales   12%	Energy Sales Energy Sales 12% Energy Sales 12% 19% on-LBMP Market Bilaterals 10% on-LBMP Market Bilaterals 10% on-LBMP Market Bilaterals 10% 1-12%
Balancing Energy Blaterial - Importify Data   1996   199	Energy Sales 12%   19%
Balancing Energy Blateral - Internal Bilaterals   19%   18%   19%   18%   19%   18%   19%   18%   19%   19%   18%   19%   18%   19%   18%   19%   18%   19	ililaterals 0,4
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	On-LBMP Market Bilaterals
Balancing Energy Bilateral - ExportNon-LBMP Market Bilaterals   1,2%	103.7% -3.7% 14,237,996 GWh 439    January   February   March   April   May   June   July   August   September   October   November   December   September   Septe
Balancing Energy Bilateral - ExportNon-LBMP Market Bilaterals   1,2%	103.7% -3.7% 14,237,996 GWh 439    January   February   March   April   May   June   July   August   September   October   November   December   September   Septe
LBMP	September   Sept
Internal Bilaterals	36% 5% 5% 2% 103.7% -3.7% 14,237,996 GWh 439
Import Bilaterals	36% 5% 5% 2% 103.7% -3.7% 14,237,996 GWh 439
Export Bilaterals	5% 2% 103.7% -3.7% 14,237,996 GWh 439    March   March   March   March   March   March   March   13,091,917   14,277,299   16,573,027   16,333,932   14,740,907   13,546,033   13,338,332   13,620,002   13,546,033   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   13,546,033   13,338,333   14,740,907   13,546,033   13,338,333   14,740,907   13,546,033   13,338,332   13,620,002   13,546,033   13,338,333   14,740,907   13,546,033   13,338,333   14,740,907   13,546,033   13,338,333   13,338,333   14,740,907   13,546,033   13,338,333   13,620,002   13,546,033   13,338,333   14,740,907   13,546,033   13,338,333
Export Bilaterals	5% 2% 103.7% -3.7% 14,237,996 GWh 439    March   March   Spin   March   March   March   Spin   March   Spin   Spin
Market Share of Total Load	103.7%   -3.7%   14,237,996    GWh 439      January   February   March   April   May   June   July   August   September   October   November   December
Market Share of Total Load	103.7% -3.7% 14,237,996 GWh 439    January   February   March   April   May   June   July   August   September   October   November   December
Day Ahead Market   103,7%   Balancing Energy + 103,7%   14,237,996   14,237,996   14,237,996   14,237,996   15,961,300   15,961,300   14,967,371   15,059,207   12,559,221   13,291,917   14,277,299   16,573,027   16,333,932   14,704,907   13,546,033   13,338,332   13,338,332   14,704,907   13,546,033   13,338,332   13,338,332   14,704,907   13,546,033   13,338,333   13,338,333   13,338,333   13,338,333   13,338,333   13,338,338   13,338,333   13,338,333   13,338,333   13,338,333   13,338,338   13,338,333	-3.7% 14,237,996 GWh 439
Salancing Energy +   1.237.996   1.247.2799   1.247.2799   1.247.299   1.247	-3.7% 14,237,996 GWh 439
Total MWH	March   April   March   April   March   April   March   April   March   Marc
New Parage Daily Energy Sendout/Month GWh	GWh         439         February         March Property         April Property         May Property         M
Part	GWh         439         February         March Property         April Property         May Property         M
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 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002 13,546,033 13,338,332 13,620,002
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 13,546,033 13,546,033 13,546,033 13,546,033 13,546,033 13,546,002
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 13,546,033 13,546,033 13,546,033 13,546,033 13,546,033 13,546,002
DAM LSE Internal LBMP Energy Sales   55%   54%   53%   55%   57%   57%   62%   61%   58%   53%   53%   53%   DAM External TC LBMP Energy Sales   5%   6%   6%   6%   4%   2%   1%   1%   1%   1%   3%   6%   5%   5%   5%   5%   5%   5%   5	s     55%     54%     53%     55%     57%     57%     62%     61%     58%     53%     53%     55%       s     5%     6%     6%     4%     2%     1%     1%     1%     3%     6%     5%     1%       s     35%     33%     33%     33%     35%     33%     30%     31%     31%     34%     33%     35%       rket Bilaterals     3%     5%     5%     6%     4%     5%     4%     4%     5%     5%     5%     5%       rket Bilaterals     2%     2%     1%     1%     1%     1%     1%     2%     2%     2%
DAM External TC LBMP Energy Sales   5%   6%   6%   4%   2%   1%   1%   1%   3%   6%   5%   5%   DAM Bilateral - Internal Bilaterals   35%   33%   33%   33%   33%   35%   35%   35%   34	5     5%     6%     6%     4%     2%     1%     1%     1%     3%     6%     5%     1%       35%     33%     33%     33%     35%     33%     30%     31%     31%     34%     33%     35%       urket Bilaterals     3%     5%     5%     6%     4%     5%     4%     4%     5%     5%     5%     5%       rket Bilaterals     2%     2%     1%     2%     1%     1%     1%     1%     1%     1%     2%     2%     2%
DAM Bilateral - Internal Bilaterals         35%         33%         33%         35%         33%         30%         31%         31%         34%         33%           DAM Bilateral - ImportI/Non-LBMP Market Bilaterals         3%         5%         5%         6%         4%         5%         4%         4%         5%         5%         5%           DAM Bilateral - Export/Non-LBMP Market Bilaterals         2%         2%         11%         2%         1%         2% <td>35% 33% 33% 35% 35% 33% 30% 31% 31% 34% 33% 35% 17ket Bilaterals 3% 5% 5% 6% 4% 5% 4% 4% 5% 5% 5% 5% 5% 5% 17ket Bilaterals 2% 2% 1% 2% 1% 1% 1% 1% 1% 1% 2% 2% 2% 2%</td>	35% 33% 33% 35% 35% 33% 30% 31% 31% 34% 33% 35% 17ket Bilaterals 3% 5% 5% 6% 4% 5% 4% 4% 5% 5% 5% 5% 5% 5% 17ket Bilaterals 2% 2% 1% 2% 1% 1% 1% 1% 1% 1% 2% 2% 2% 2%
DAM Bilateral - ImportI/Non-LBMP Market Bilaterals         3%         5%         5%         6%         4%         5%         4%         5%         5%         5%           DAM Bilateral - Export/Non-LBMP Market Bilaterals         2%         2%         1%         2%         1%         1%         1%         1%         2%         2%         2%         2%         1%         1%         1%         1%         2%	rket Bilaterals 3% 5% 5% 6% 4% 5% 4% 4% 5% 5% 5% 5% 5% 5% rket Bilaterals 2% 2% 1% 1% 1% 1% 1% 1% 1% 2% 2% 2%
DAM Bilateral - Export/Non-LBMP Market Bilaterals         2%         2%         1%         2%         1%         1%         1%         1%         1%         2%         2%           DAM Bilateral - Wheel Through Bilaterals         0%         1%         1%         1%         0%         2%         1%         1%         2%         2%         2%         2%         2%         2%         1%         1%         2%         2%         2%         2%         1%         1%         2%         24%         14%         19         409,205         -33,091         -549,794         -505,637         -228,461         -33,268         -859,570         684,000         11%         11%         11%         11%         11%         11%         11%         11%         111%         111%         12%         11%         10%         4%         10%         10%         10%	rket Bilaterals 2% 2% 1% 2% 1% 1% 1% 1% 1% 2% 2% 2%
DAM Bilateral - Wheel Through Bilaterals         0%         1%         1%         0%         2%         2%         2%         2%         1%         2%           Balancing Energy Market MWh         -650,944         -296,616         -396,739         -409,205         -331,091         -549,794         -505,637         -228,461         -33,268         -595,704         -684,006           Balancing Energy LSE Internal LBMP Energy Sales         149%         -247%         -192%         -147%         -142%         -106%         -120%         -139%         -345%         -111%           Balancing Energy Bilateral TC LBMP Energy Sales         30%         113%         64%         36%         35%         16%         25%         50%         110%         13%         12%           Balancing Energy Bilateral - Intronal Bilaterals         13%         14%         199         5%         6%         6%         13%         25%         239%         7%         5%           Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         6%         8%         12%         12%         10%         4%         3%         8%         46%         5%         5%           Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         6%         8%         12%	
Balancing Energy Market MWh         -650,944         -296,616         -396,739         -409,205         -331,091         -549,794         -505,637         -228,461         -33,268         -595,704         -684,006           Balancing Energy LSE Internal LBMP Energy Sales         -149%         -247%         -192%         -147%         -142%         -106%         -120%         -139%         -345%         -116%         -111%           Balancing Energy External TC LBMP Energy Sales         30%         113%         64%         36%         35%         16%         25%         50%         110%         13%         12%           Balancing Energy Bilateral - Internal Bilaterals         13%         14%         19%         5%         6%         6%         13%         22%         239%         7%         5%           Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         6%         8%         12%         12%         10%         4%         3%         8%         46%         5%         5%           Balancing Energy Bilateral - Wheel Through Bilaterals         6%         8%         12%         12%         10%         4%         3%         8%         46%         5%         5%           Balancing Energy Bilateral - Wheel Through Bilaterals	
Balancing Energy LSE Internal LBMP Energy Sales         -149%         -247%         -192%         -147%         -142%         -106%         -120%         -139%         -345%         -116%         -111%           Balancing Energy External TC LBMP Energy Sales         30%         113%         64%         36%         35%         16%         25%         50%         110%         13%         12%           Balancing Energy Bilateral - Internal Bilaterals         13%         14%         19%         5%         6%         6%         13%         25%         239%         7%         5%           Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         0%         <	-650.944 -296.616 -396.739 -409.205 -331.091 -549.794 -505.637 -228.461 -33.268 -595.704 -684.006 -628.903
Balancing Energy External TC LBMP Energy Sales         30%         113%         64%         36%         35%         16%         25%         50%         110%         13%         12%           Balancing Energy Bilateral - Internal Bilaterals         13%         14%         19%         5%         6%         6%         13%         25%         239%         7%         5%           Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         6%         8%         12%         10%         0%	
Balancing Energy Bilateral - Internal Bilaterals         13%         14%         19%         5%         6%         6%         13%         25%         239%         7%         5%           Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals         0%         0%         0%         0%         1%         0%         12%         12%         10%         4%         3%         8%         46%         5% <td></td>	
Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals         0%         0%         0%         0%         1%         0%         0%         0%         0%           Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         6%         8%         12%         12%         10%         4%         3%         8%         46%         5%         5%           Balancing Energy Bilateral - Wheel Through Bilaterals         0%         12%         -4%         -5%         -9%         -22%         -21%         -44%         -149%         -9%         -12%           Transactions Summary           LBMP         58%         59%         57%         57%         58%         57%         61%         61%         61%         56%         56%           Internal Bilaterals         37%         34%         35%         35%         35%         32%         32%         32%         36%         35%           Import Bilaterals         37%         5%         5%         6%         4%         5%         5%         5%         6%         6%         4%         5%         5%         5%         5%         6%         6%         4%         5%         5%         5%         5%         6%	
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         6%         8%         12%         12%         10%         4%         3%         8%         46%         5%         5%           Balancing Energy Bilateral - Wheel Through Bilaterals         0%         12%         -4%         -5%         -9%         -22%         -21%         -44%         -149%         -9%         -12%           Transactions Summary           LBMP         58%         59%         57%         57%         58%         57%         61%         61%         61%         56%         56%           Internal Bilaterals         37%         34%         35%         35%         35%         32%         32%         32%         36%         35%           Import Bilaterals         3%         5%         5%         6%         4%         5%         5%         5%         5%         6%           Export Bilaterals         2%         2%         2%         2%         1%         1%         1%         1%         2%         2%           Wheels Through         0%         1%         1%         0%         0%         1%         1%         1%         0%         1%         1%	
Balancing Energy Bilateral - Wheel Through Bilaterals         0%         12%         -4%         -5%         -9%         -22%         -21%         -44%         -149%         -9%         -12%           Transactions Summary           LBMP         58%         59%         57%         57%         58%         57%         61%         61%         61%         56%         56%           Internal Bilaterals         37%         34%         35%         35%         35%         32%         32%         32%         36%         35%           Import Bilaterals         3%         5%         5%         6%         4%         5%         5%         5%         5%         6%           Export Bilaterals         2%         2%         2%         2%         1%         1%         1%         1%         2%         2%           Wheels Through         0%         1%         1%         0%         1%         1%         1%         1%         0%         1%         1%         1%         0%         1%         1%         1%         0%         1%         1%         1%         1%         0%         1%         1%         1%         1%         0%         1%	
Transactions Summary           LBMP         58%         59%         57%         57%         58%         57%         61%         61%         61%         56%         56%           Internal Bilaterals         37%         34%         35%         35%         36%         35%         32%         32%         32%         36%         35%           Import Bilaterals         3%         5%         5%         6%         4%         5%         5%         5%         5%         6%           Export Bilaterals         2%         2%         2%         2%         1%         1%         1%         1%         2%         2%           Wheels Through         0%         1%         1%         0%         0%         1%         1%         1%         0%         1%           Market Share of Total Load         104.3%         102.0%         102.7%         103.4%         102.6%         104.0%         103.1%         101.4%         100.2%         104.6%         105.4%	
LBMP         58%         59%         57%         57%         58%         57%         61%         61%         61%         56%         56%         56%           Internal Bilaterals         37%         34%         35%         35%         36%         35%         32%         32%         32%         36%         35%           Import Bilaterals         3%         5%         5%         6%         4%         5%         5%         5%         5%         6%           Export Bilaterals         2%         2%         2%         2%         1%         1%         1%         1%         2%         2%           Wheels Through         0%         1%         0%         0%         1%         1%         1%         1%         0%         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%         104.6%         105.4%	
Internal Bilaterals         37%         34%         35%         35%         36%         35%         32%         32%         32%         36%         35%           Import Bilaterals         3%         5%         5%         6%         4%         5%         5%         5%         5%         5%         6%           Export Bilaterals         2%         2%         2%         2%         1%         1%         1%         1%         2%         2%           Wheels Through         0%         1%         1%         0%         1%         1%         1%         1%         0%         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%         104.6%         105.4%	58% 59% 57% 57% 58% 57% 61% 61% 61% 56% 56% 54%
Import Bilaterals         3%         5%         5%         6%         4%         5%	
Export Bilaterals         2%         2%         2%         2%         1%         1%         1%         1%         2%         2%           Wheels Through         0%         1%         1%         0%         0%         1%         1%         1%         0%         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%         104.6%         105.4%	
Wheels Through         0%         1%         1%         0%         1%         1%         1%         1%         0%         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%         104.6%         105.4%	5/0 5/0 5/0 5/0 1/0 5/0 5/0 5/0 5/0 5/0 5/0 5/0 5/0 5/0 5
Market Share of Total Load           Day Ahead Market         104.3%         102.0%         102.7%         103.4%         102.6%         104.0%         103.1%         101.4%         100.2%         104.6%         105.4%	
Day Ahead Market         104.3%         102.0%         102.7%         103.4%         102.6%         104.0%         103.1%         101.4%         100.2%         104.6%         105.4%	2% 2% 2% 2% 1% 1% 1% 1% 2% 2% 2%
	2% 2% 2% 2% 1% 1% 1% 1% 2% 2% 2%
Baiancing Energy + -4.3% -2.0% -2.0% -2.0% -2.6% -4.0% -3.1% -1.4% -0.2% -4.6% -5.4%	2%     2%     2%     2%     1%     1%     1%     1%     2%     2%     2%       0%     1%     1%     0%     0%     1%     1%     1%     1%     0%     1%     1%
	2%     2%     2%     2%     1%     1%     1%     1%     2%     2%     2%       0%     1%     1%     0%     0%     1%     1%     1%     1%     0%     1%     1%
Average Daily Energy Sendout/Month GWh 462 481 436 387 409 450 512 511 473 389 396	2%     2%     2%     2%     2%     1%     1%     1%     1%     2%     2%     2%       0%     1%     1%     0%     0%     1%     1%     1%     1%     0%     1%     1%       104.3%     102.0%     102.7%     103.4%     102.6%     104.0%     103.1%     101.4%     100.2%     104.6%     105.4%     104.8%
	2% 2% 2% 2% 1% 1% 1% 1% 2% 2%

<sup>+</sup> Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

Virtual Transactions are not reflected in this chart.

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

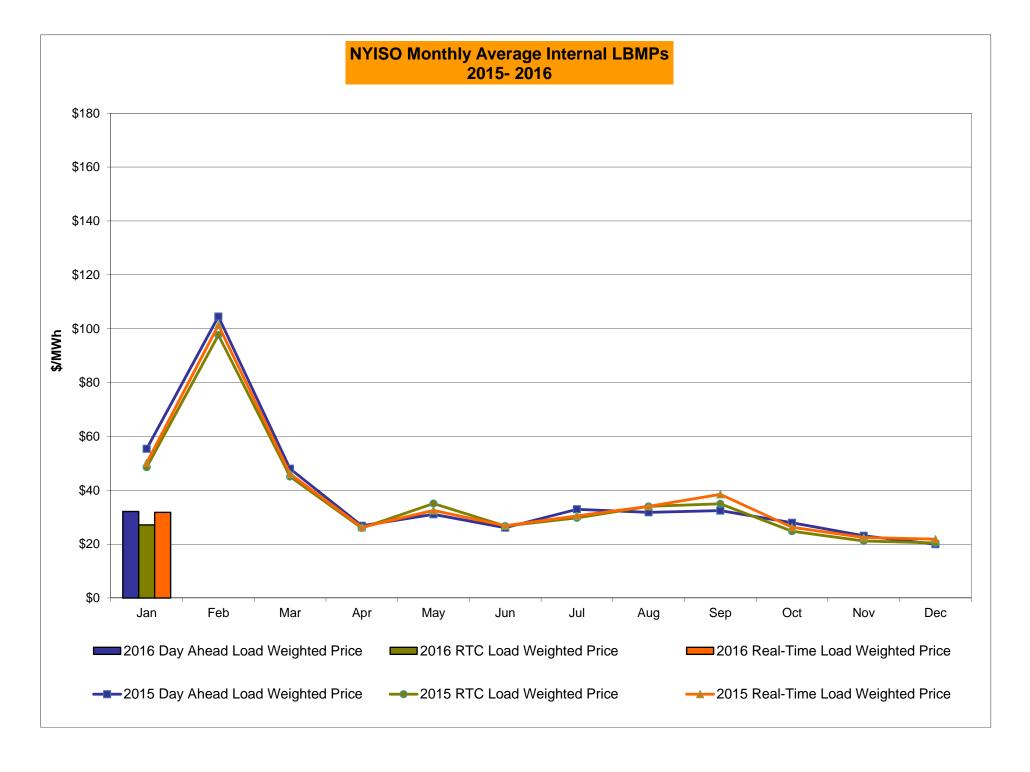
### **NYISO Markets 2016 Energy Statistics**

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP							-		
Price *	\$31.01								
Standard Deviation	\$10.86								
Load Weighted Price **	\$32.13								
RTC LBMP									
Price *	\$26.12								
Standard Deviation	\$16.06								
Load Weighted Price **	\$27.16								
REAL TIME LBMP									
Price *	\$30.15								
Standard Deviation	\$60.09								
Load Weighted Price **	\$31.80								
Average Daily Energy Sendout/Month GWh	439								

### 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>	August S	<u>September</u>	October	November [	<u>December</u>
DAY AHEAD LBMP												
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
RTC LBMP												
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
REAL TIME LBMP												
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

<sup>Average zonal load weighted prices.
Average zonal load weighted prices, load weighted in each hour.</sup> 

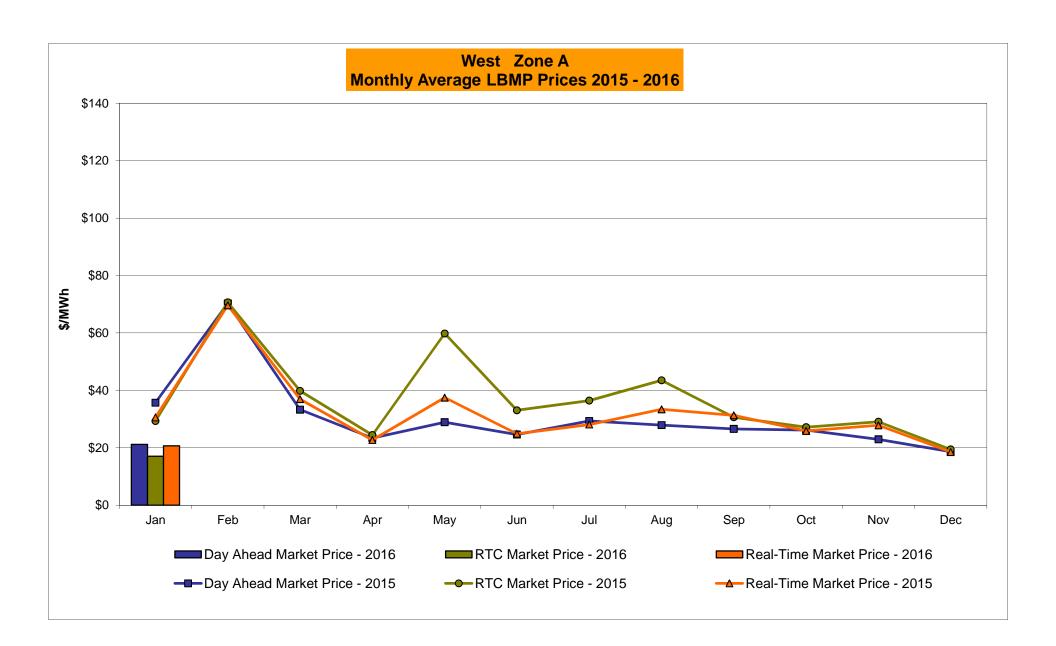


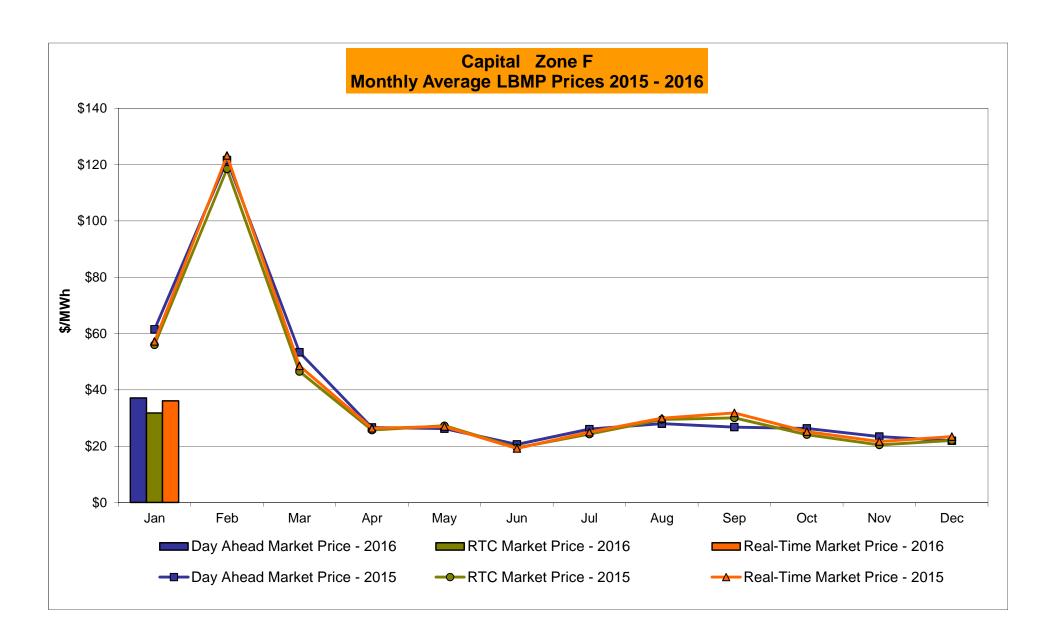
#### January 2016 Zonal LBMP Statistics for NYISO (\$/MWh)

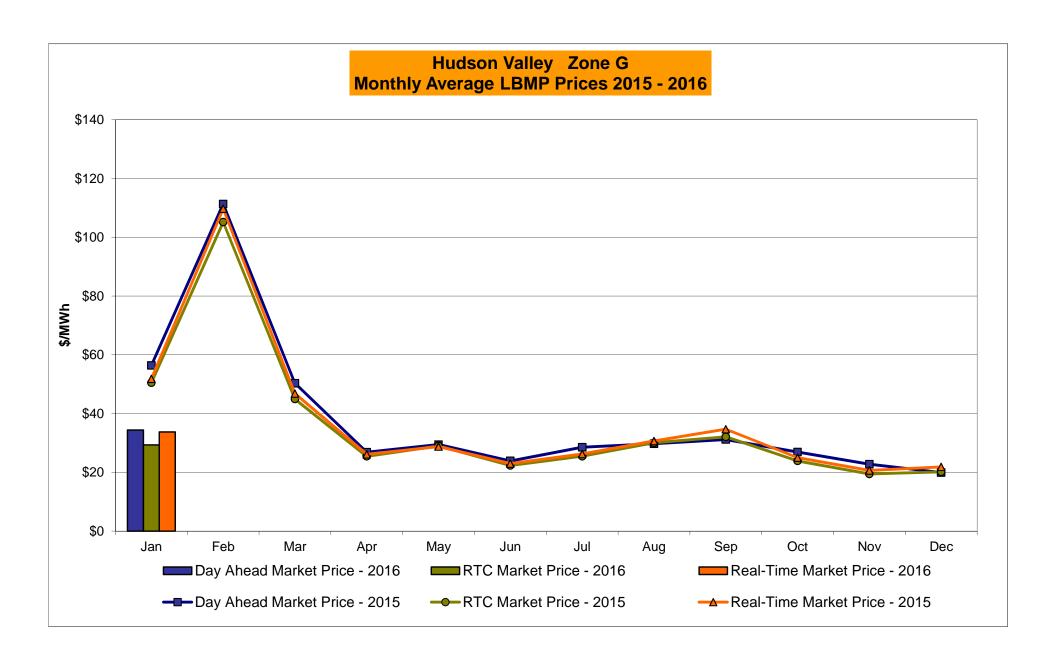
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP	<u> </u>			· <u></u>	·						<u></u>
Unweighted Price *	21.19	20.27	18.14	21.50	22.50	37.10	34.42	34.67	34.60	35.04	40.86
Standard Deviation	8.26	7.52	8.02	8.19	8.53	13.99	12.51	12.64	12.61	13.16	15.37
RTC LBMP											
Unweighted Price *	17.06	16.57	15.28	18.14	19.08	31.76	29.31	29.48	29.40	29.58	34.49
Standard Deviation	19.79	11.16	16.42	15.53	15.99	19.45	18.34	18.51	18.44	18.53	28.20
REAL TIME LBMP											
Unweighted Price *	20.68	20.39	19.45	22.39	23.52	36.11	33.72	33.91	33.80	33.96	38.01
Standard Deviation	51.30	46.11	57.84	58.93	60.97	62.96	63.91	64.32	63.95	63.53	67.13
		HYDRO	HYDRO			CROSS					
	ONTARIO	QUEBEC	QUEBEC	D IM	NEW	SOUND	NORTHPORT-	NEDTUNE	LINDEN VET	IIIIDEON	Danniaan
	ONTARIO IESO	QUEBEC	_	РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	Controllable	Controllable
DAY AHEAD LBMP		QUEBEC	QUEBEC	PJM Zone P		SOUND CABLE	NORWALK	_			
DAY AHEAD LBMP Unweighted Price *	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	Controllable	Controllable
	IESO Zone O	QUEBEC (Wheel)	QUEBEC (Import/Export)	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	<b>Zone O</b> 19.51	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export)  Zone M  17.66	<b>Zone P</b> 29.06	ENGLAND  Zone N  37.04	SOUND CABLE Controllable Line	NORWALK Controllable Line 38.59	Controllable Line 37.85	Controllable Line 34.94	Controllable Line 34.96	Controllable Line 17.94
Unweighted Price * Standard Deviation	<b>Zone O</b> 19.51 6.84	QUEBEC (Wheel) Zone M 17.66 8.39	QUEBEC (Import/Export)  Zone M  17.66 8.39	<b>Zone P</b> 29.06 9.96	Zone N 37.04 13.61	SOUND CABLE Controllable Line 39.71 14.63	NORWALK Controllable Line 38.59 13.70	27.85 14.41 30.13	29.27	29.32	17.94 7.97
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 19.51 6.84	QUEBEC (Wheel) <u>Zone M</u> 17.66 8.39	QUEBEC (Import/Export) Zone M 17.66 8.39	<b>Zone P</b> 29.06 9.96	Zone N 37.04 13.61	SOUND CABLE Controllable Line 39.71 14.63	NORWALK Controllable Line 38.59 13.70	Controllable Line 37.85 14.41	Controllable Line 34.94 13.16	Controllable Line 34.96 13.03	Controllable Line 17.94 7.97
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	19.51 6.84 15.86 11.24	QUEBEC (Wheel) Zone M 17.66 8.39 13.58 14.15	QUEBEC (Import/Export)  Zone M  17.66 8.39  13.58 14.15	29.06 9.96 24.29 12.31	20ne N 37.04 13.61 33.79 26.49	SOUND CABLE Controllable Line 39.71 14.63 31.74 20.15	NORWALK Controllable Line 38.59 13.70 31.28 19.78	37.85 14.41 30.13 19.03	29.27 15.93	29.32 15.99	17.94 7.97 14.86 13.58
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation	<b>Zone O</b> 19.51 6.84	QUEBEC (Wheel) Zone M 17.66 8.39	QUEBEC (Import/Export)  Zone M  17.66 8.39	<b>Zone P</b> 29.06 9.96	Zone N 37.04 13.61	SOUND CABLE Controllable Line 39.71 14.63	NORWALK Controllable Line 38.59 13.70	27.85 14.41 30.13	29.27	29.32	17.94 7.97

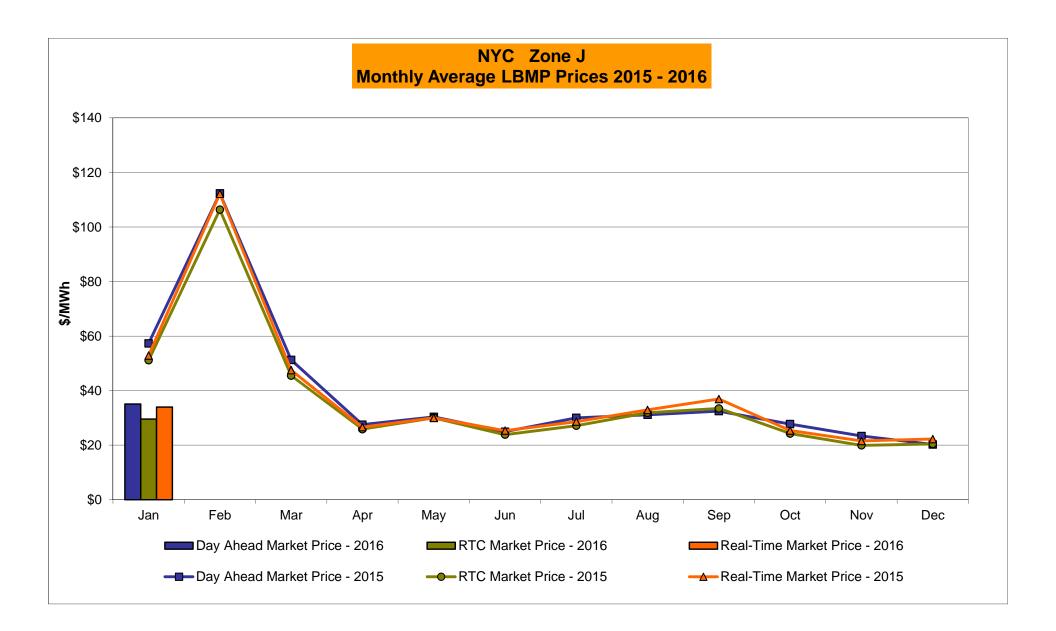
Market Mitigation and Analysis Prepared: 2/2/2016 11:48 AM

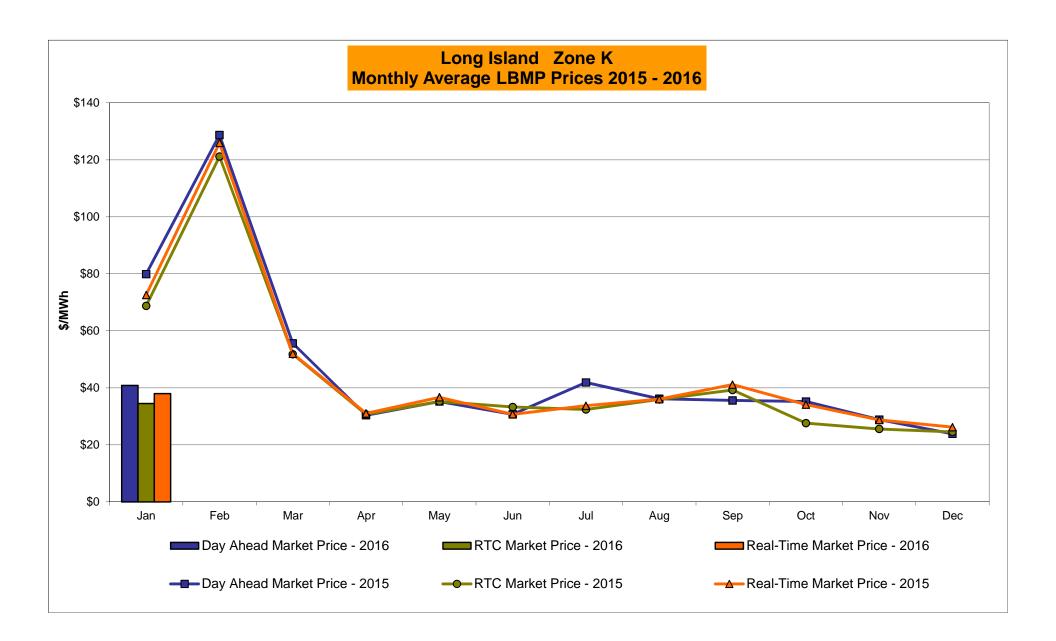
<sup>\*</sup> Straight LBMP averages

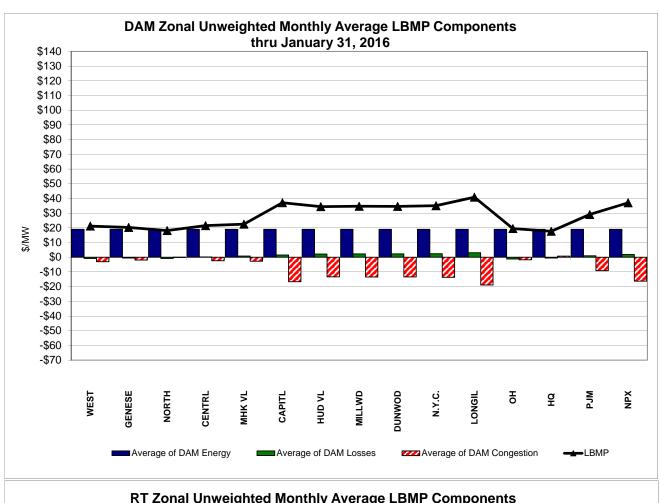


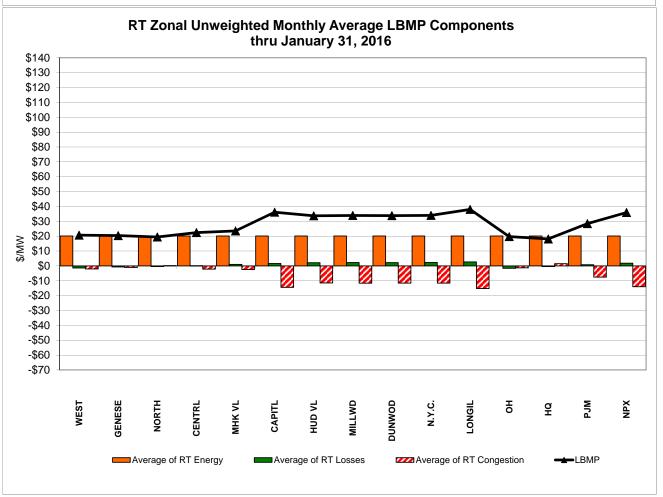




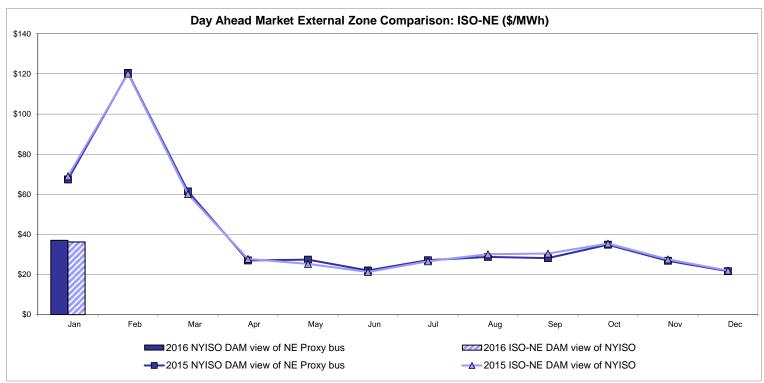


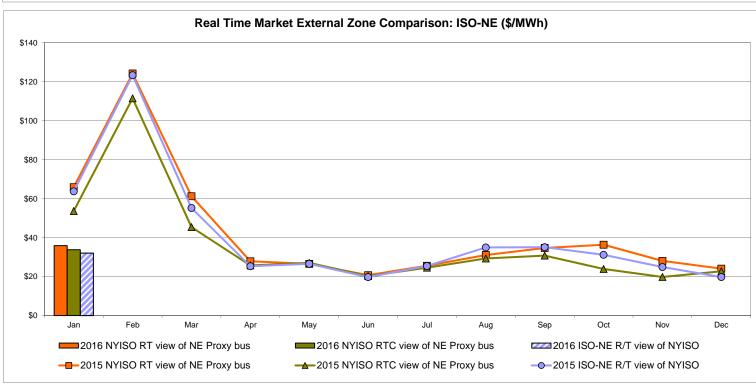


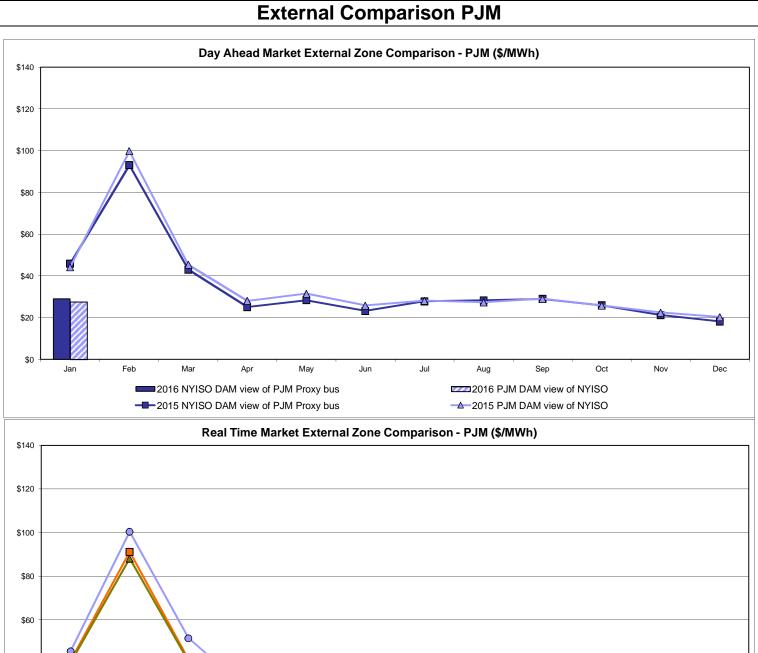




### **External Comparison ISO-New England**







Feb

2016 NYISO RT view of PJM Proxy bus

----2015 NYISO RT view of PJM Proxy bus

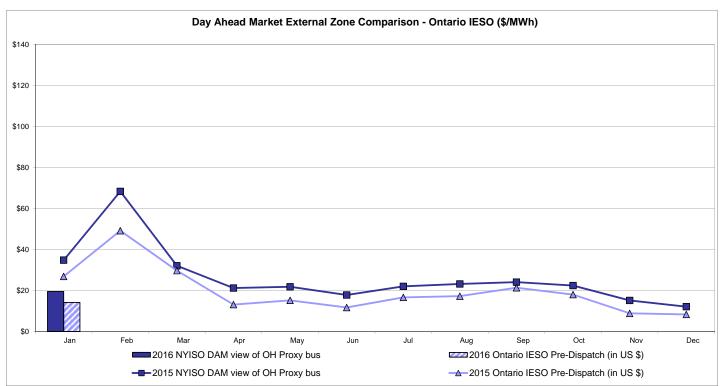
2016 NYISO RTC view of PJM Proxy bus

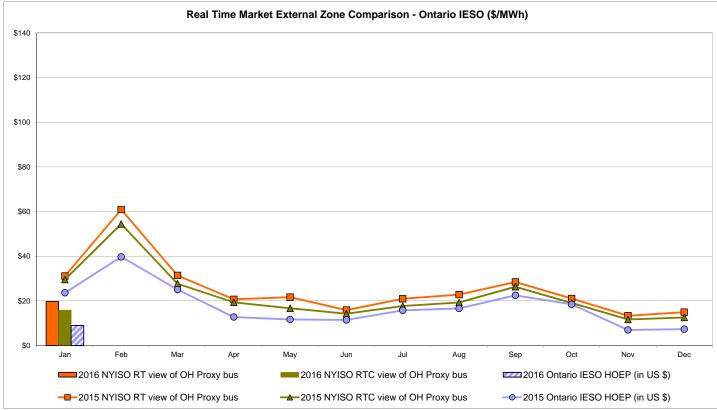
→ 2015 NYISO RTC view of PJM Proxy bus

2016 PJM R/T view of NYISO

-0-2015 PJM R/T view of NYISO

### **External Comparison Ontario IESO**

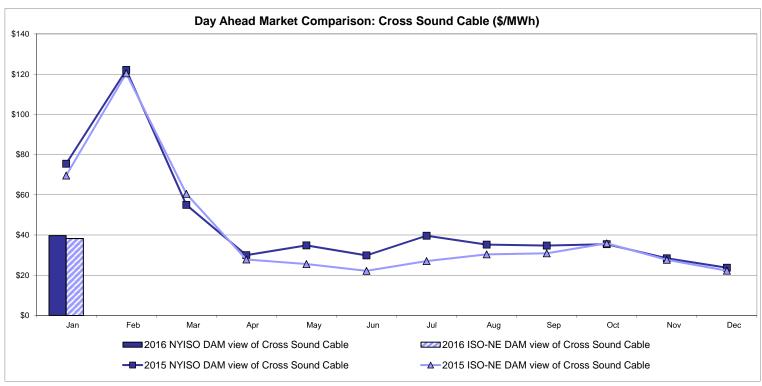


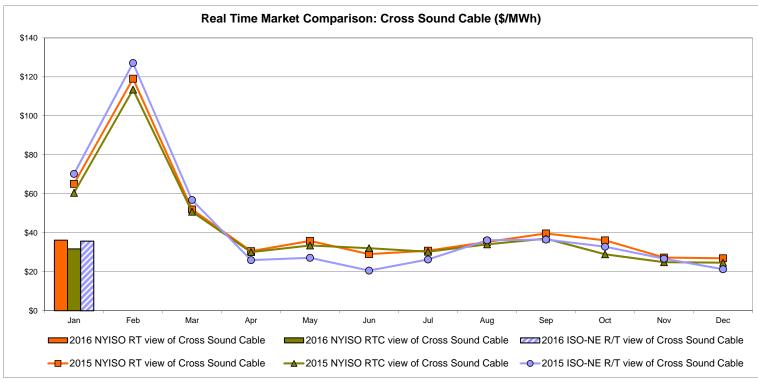


Notes: Exchange factor used for January 2016 was 0.7038 to US

HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

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





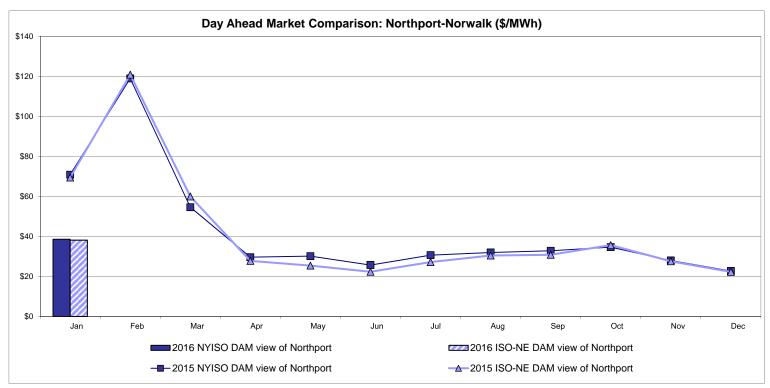
#### Note:

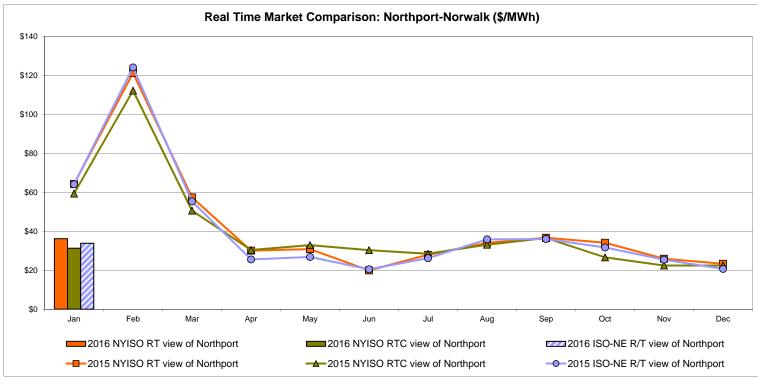
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)**





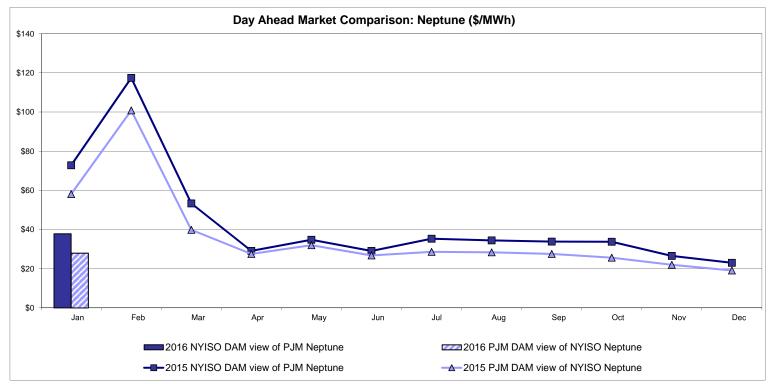
#### Note:

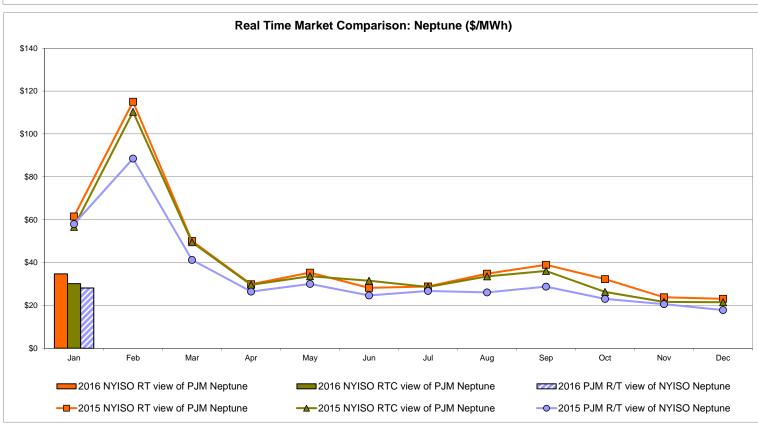
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.

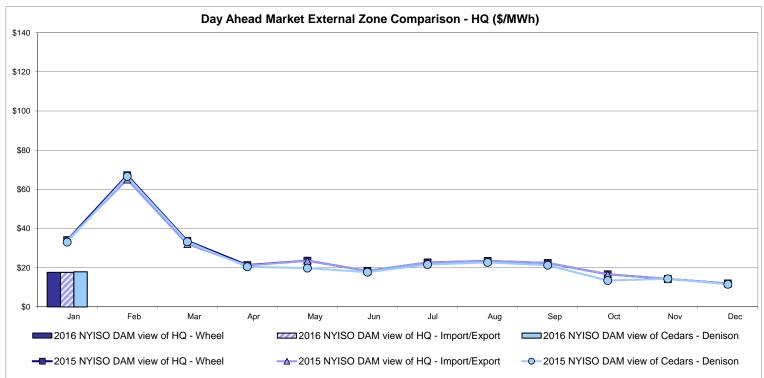
The DAM and R/T prices at the 1385 interface are used for NYISO.

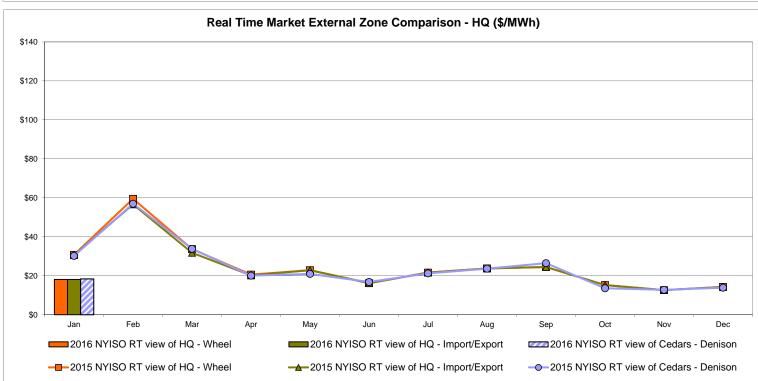
### **External Controllable Line: Neptune (PJM)**





### **External Comparison Hydro-Quebec**

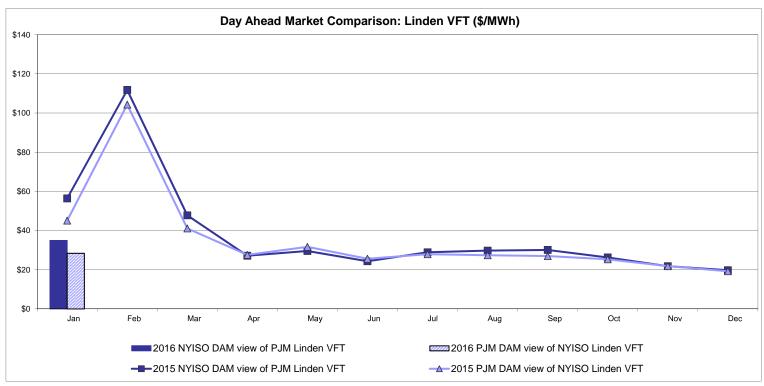


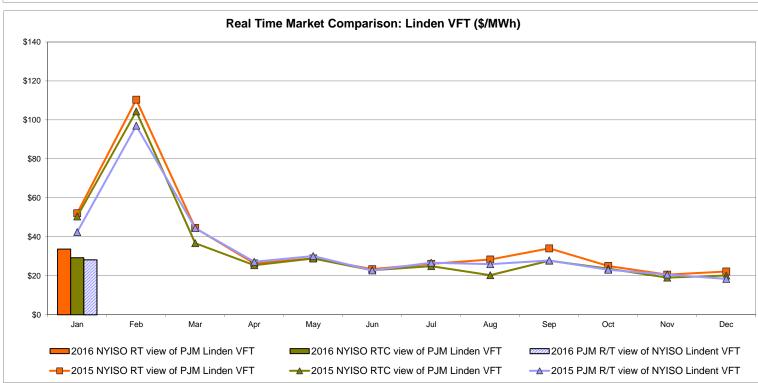


Note:

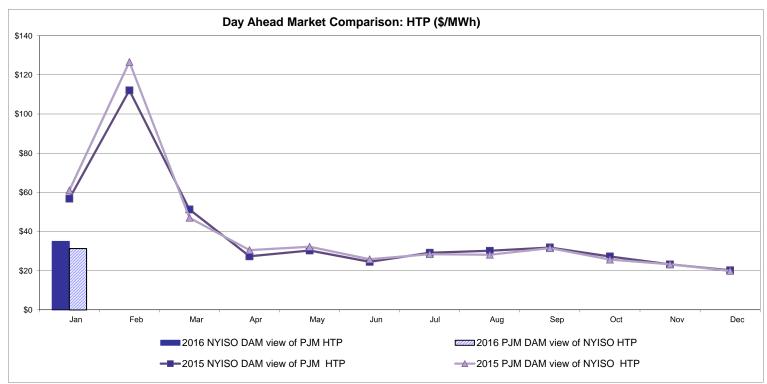
Hydro-Quebec Prices are unavailable.

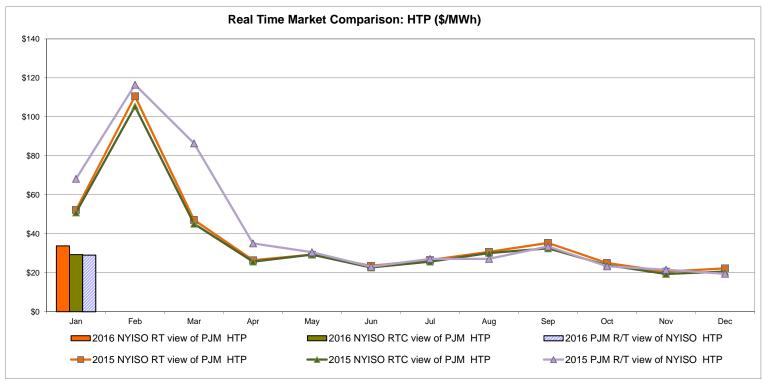
### **External Controllable Line: Linden VFT (PJM)**





### **External Controllable Line: Hudson (PJM)**



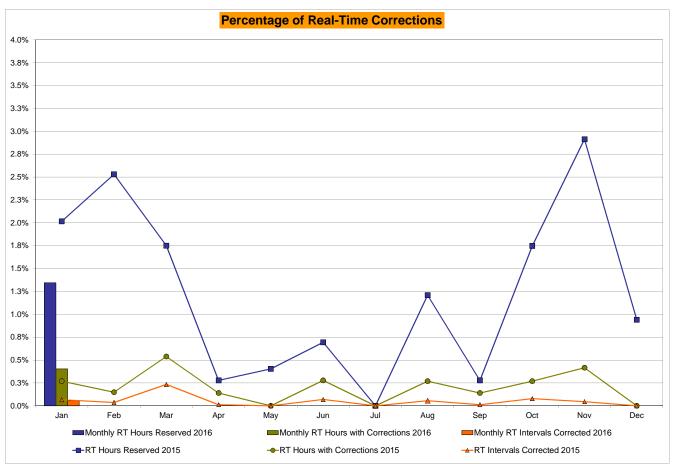


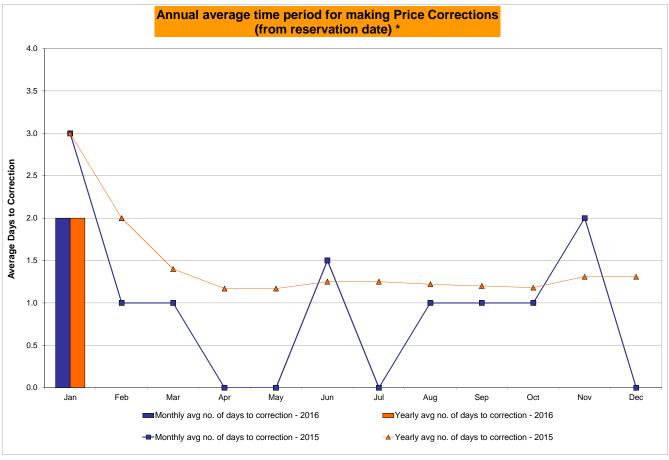
### **NYISO Real Time Price Correction Statistics**

<u>2016</u>		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Hour Corrections	:	0											
Number of hours with corrections Number of hours	in the month in the month	3 744											
% of hours with corrections	in the month	0.40%											
% of hours with corrections Interval Corrections	year-to-date	0.40%											
Number of intervals corrected	in the month	5											
Number of intervals	in the month	9,000											
% of intervals corrected	in the month	0.06%											
% of intervals corrected	year-to-date	0.06%											
Hours Reserved	,												
Number of hours reserved	in the month	10											
Number of hours	in the month	744											
% of hours reserved	in the month	1.34%											
% of hours reserved	year-to-date	1.34%											
Days to Correction *	•												
Avg. number of days to correction	in the month	2.00											
Avg. number of days to correction	year-to-date	2.00											
Days Without Corrections													
Days without corrections	in the month	29											
Days without corrections	year-to-date	29											
2015		January	February	March	April	Mav	June	Julv	August	September	October	November	December
2015 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
	in the month	<u>January</u> 2	<u>February</u> 1	March 4	<u>April</u> 1	<u>May</u> 0	<u>June</u> 2	<u>July</u> 0	August 2	September 1	October 2	November 3	December 0
Hour Corrections	in the month		·			<del></del>						·	
Hour Corrections  Number of hours with corrections		2	1	4	1	0	2	0	2	1	2	3	0
Hour Corrections  Number of hours with corrections  Number of hours	in the month	2 744	1 672	4 743	1 720	0 744	2 720 0.28%	0 744	2 744	1 720	2 744	3 721	0 744
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	2 744 0.27%	1 672 0.15%	4 743 0.54%	1 720 0.14%	0 744 0.00%	 2 720	0 744 0.00%	2 744 0.27%	1 720 0.14%	2 744 0.27%	3 721 0.42%	0 744 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	2 744 0.27%	1 672 0.15%	4 743 0.54%	1 720 0.14%	0 744 0.00%	2 720 0.28%	0 744 0.00%	2 744 0.27%	1 720 0.14%	2 744 0.27%	3 721 0.42%	0 744 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27% 0.27%	1 672 0.15% 0.21%	4 743 0.54% 0.32%	1 720 0.14% 0.28%	0 744 0.00% 0.22%	2 720 0.28% 0.23%	0 744 0.00% 0.20%	2 744 0.27% 0.21%	1 720 0.14% 0.20%	2 744 0.27% 0.21%	3 721 0.42% 0.22%	0 744 0.00% 0.21%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% 0.27%	1 672 0.15% 0.21%	4 743 0.54% 0.32%	1 720 0.14% 0.28%	0 744 0.00% 0.22%	2 720 0.28% 0.23%	0 744 0.00% 0.20%	2 744 0.27% 0.21%	1 720 0.14% 0.20%	2 744 0.27% 0.21%	3 721 0.42% 0.22%	0 744 0.00% 0.21%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date  in the month in the month	2 744 0.27% 0.27% 6 9,066	1 672 0.15% 0.21% 3 8,231	4 743 0.54% 0.32% 21 9,005	1 720 0.14% 0.28%	0 744 0.00% 0.22% 0 9,032	2 720 0.28% 0.23% 6 8,731	0 744 0.00% 0.20% 0 9,025	2 744 0.27% 0.21% 5 8,987	1 720 0.14% 0.20% 1 8,728	2 744 0.27% 0.21% 7 9,008	3 721 0.42% 0.22% 4 8,743	0 744 0.00% 0.21% 0 8,975
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07%	2 720 0.28% 0.23% 6 8,731 0.07%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	2 744 0.27% 0.27% 6 9,066 0.07% 0.07%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	2 744 0.27% 0.27% 6 9,066 0.07% 0.07%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69% 1.27%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06% 0 744 0.00% 1.08%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction * Avg. number of days to corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08%	1 720 0.14% 0.28%  1 8,696 0.01% 0.09%  2 720 0.28% 1.63% 0.00	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69% 1.27%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06% 0 744 0.00% 1.08%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69% 1.27%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06% 0 744 0.00% 1.08%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Mumber of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved % of hours reserved % of hours reserved Number of days to correction Avg. number of days to correction Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02% 3.00 3.00	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26% 1.00 2.00	4 743 0.54% 0.32%  21 9,005 0.23% 0.11%  13 743 1.75% 2.08%  1.00 1.40	1 720 0.14% 0.28%  1 8,696 0.01% 0.09%  2 720 0.28% 1.63%  0.00 1.17	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38% 0.00 1.17	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69% 1.27%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06% 0 744 0.00% 1.08%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25% 2.00 1.31	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08%	1 720 0.14% 0.28%  1 8,696 0.01% 0.09%  2 720 0.28% 1.63% 0.00	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69% 1.27%	0 744 0.00% 0.20% 0 9,025 0.00% 0.06% 0 744 0.00% 1.08%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%

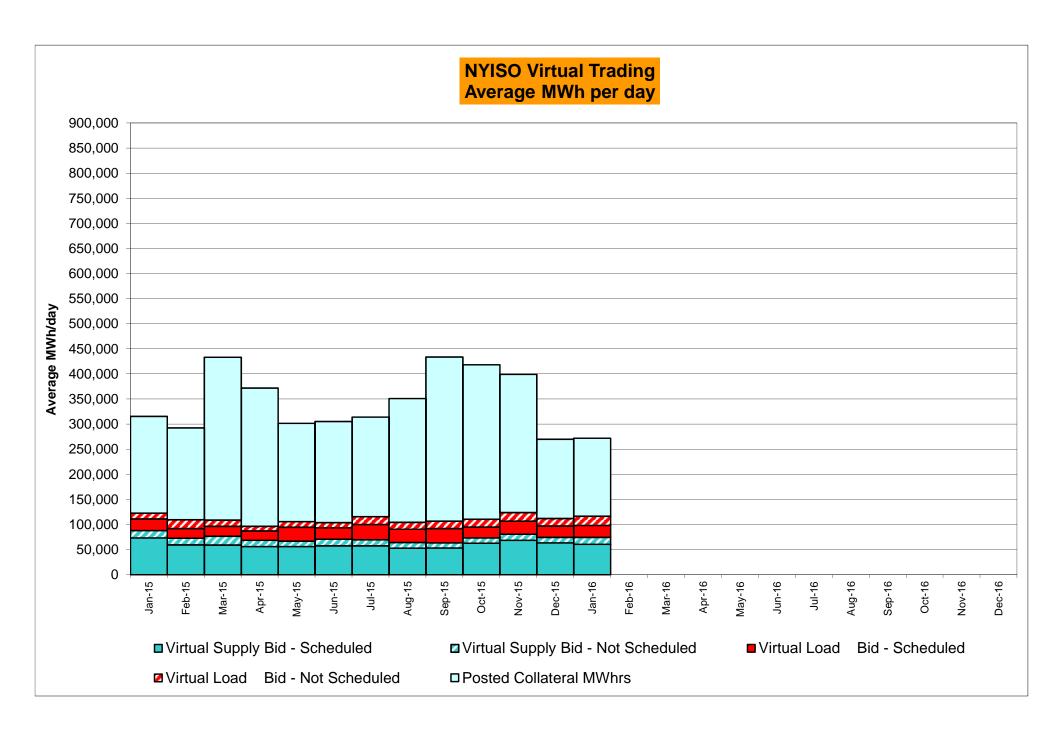
<sup>\*</sup> Calendar days from reservation date.

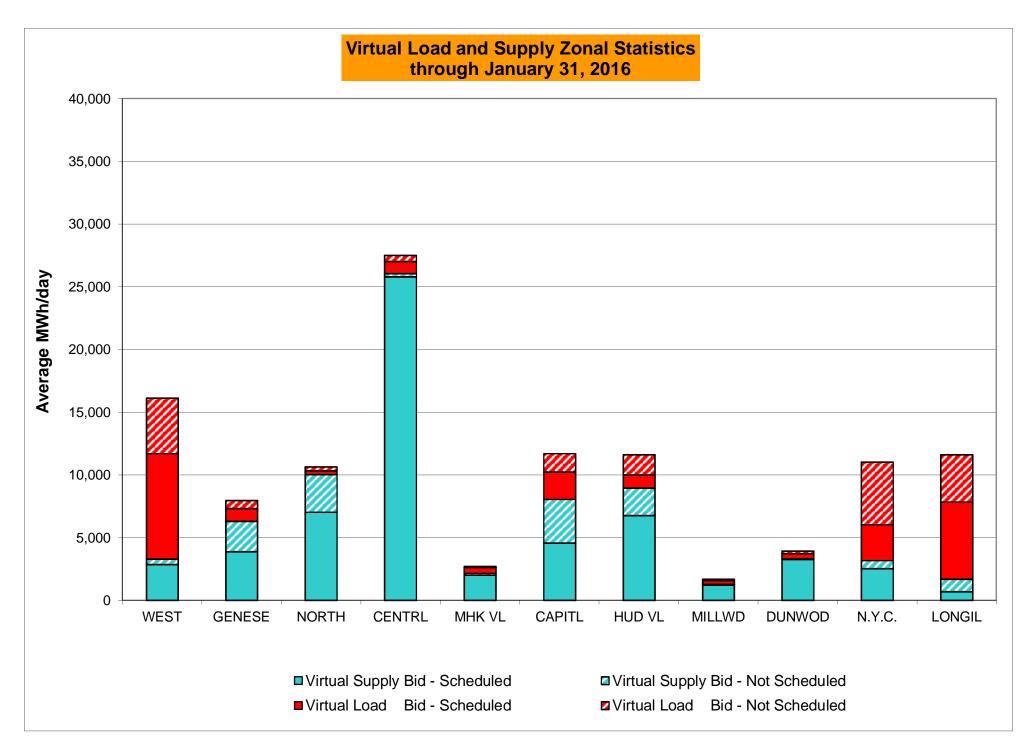
Market Mitigation and Analysis Prepared: 2/3/2016 1:53 PM



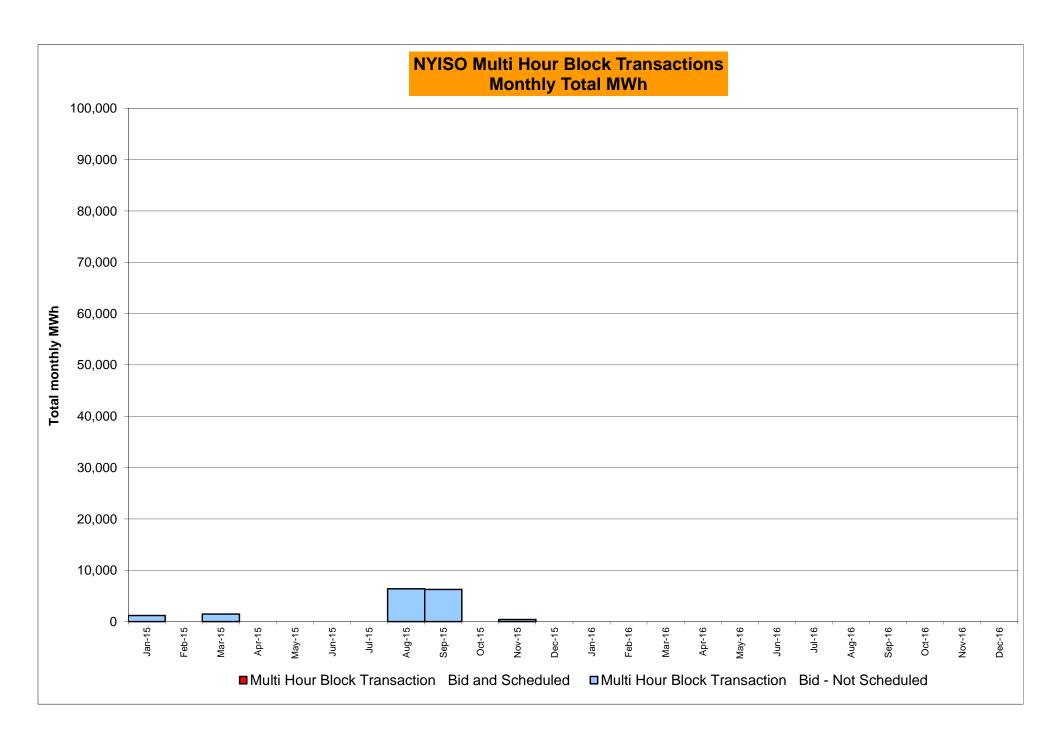


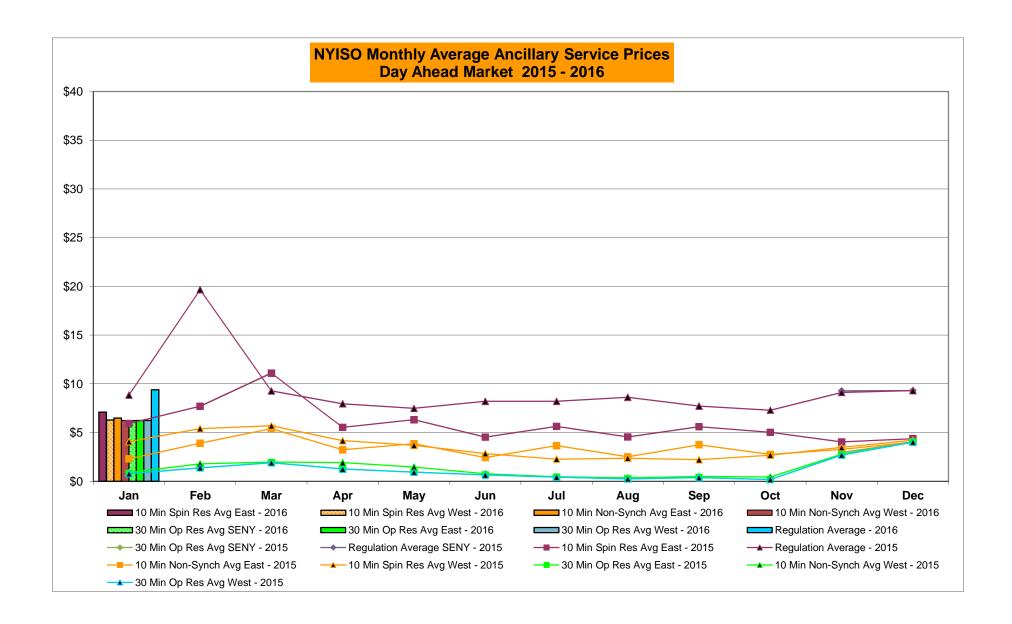
<sup>\*</sup> Calendar days from reservation date.

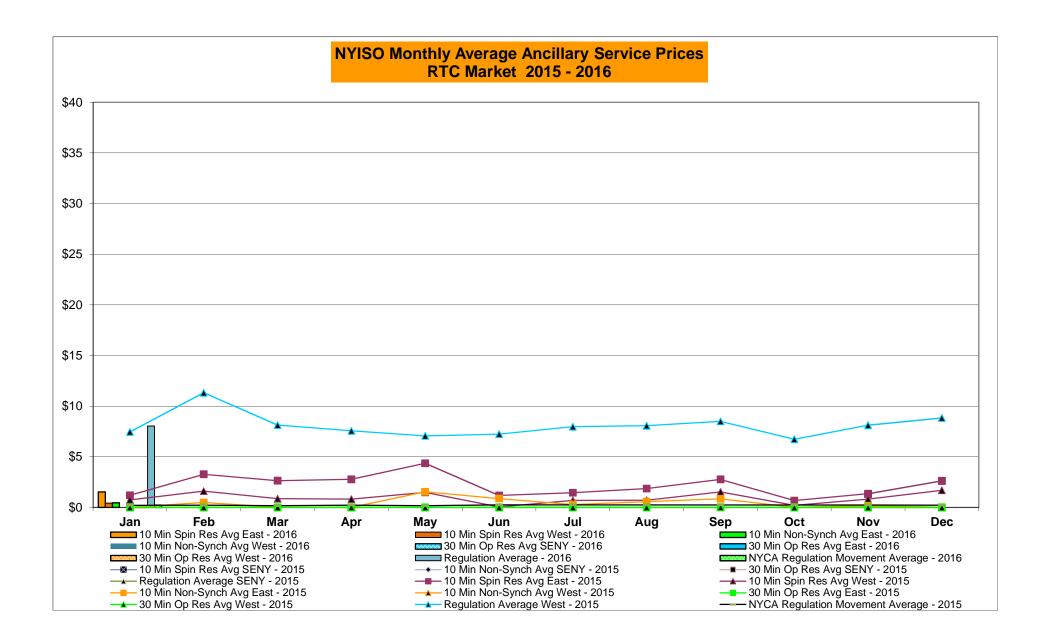


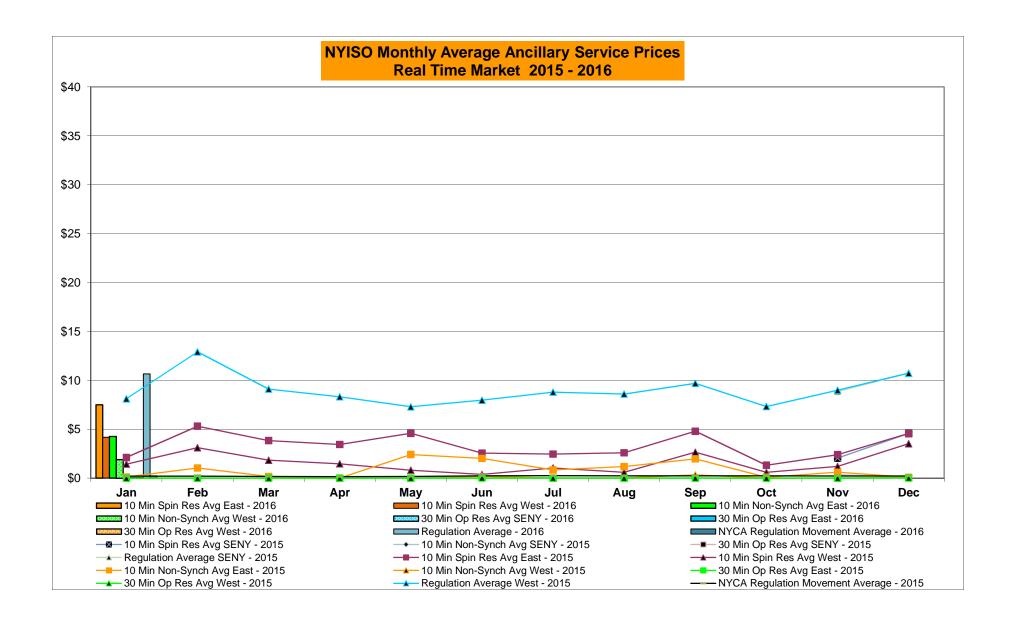


					<u>Virtual L</u>	oad and	Supp	oly Zonal	Statistic	s (Avera	ge MWh/da	ry) - 2016					
		Virtual L		Virtual Su				Virtual L		Virtual Su				Virtual I	Load Bid	Virtual Su	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
WEST	Jan-16	8,416	4,440	2,862	419	MHK VL	Jan-16	463			146	DUNWOD	Jan-16			3,262	61
11201	Feb-16	0,410	7,770	2,002	413	WILLIX V.L	Feb-16	700	52	2,024	140	DONWOD	Feb-16		210	3,202	01
	Mar-16						Mar-16						Mar-16				
	Apr-16						Apr-16						Apr-16				
	May-16						May-16						May-16				
	Jun-16						Jun-16						Jun-16				
	Jul-16						Jul-16						Jul-16				
	Aug-16						Aug-16						Aug-16				
	Sep-16						Sep-16						Sep-16				
	Oct-16						Oct-16						Oct-16				
	Nov-16						Nov-16						Nov-16				
	Dec-16						Dec-16						Dec-16				
GENESE	Jan-16	1,030	638	3,868	2,421	CAPITL	Jan-16	2,195	1,472	4,568	3,470	N.Y.C.	Jan-16	2,862	4,976	2,531	648
	Feb-16	, , , , , , , , , , , , , , , , , , , ,		-,	,		Feb-16	,	,	,	-, -		Feb-16		,	,	
	Mar-16						Mar-16						Mar-16				
	Apr-16						Apr-16						Apr-16				
	May-16						May-16						May-16				
	Jun-16						Jun-16						Jun-16				
	Jul-16						Jul-16						Jul-16				
	Aug-16						Aug-16						Aug-16				
	Sep-16						Sep-16						Sep-16				
	Oct-16						Oct-16						Oct-16				
	Nov-16						Nov-16						Nov-16				
	Dec-16						Dec-16						Dec-16				
NORTH	Jan-16	274	312	7,038	3,010	HUD VL	Jan-16	1,036	1,609	6,763	2,202	LONGIL	Jan-16		3,761	700	985
	Feb-16						Feb-16						Feb-16				
	Mar-16						Mar-16						Mar-16				
	Apr-16						Apr-16						Apr-16				
	May-16						May-16						May-16				
	Jun-16						Jun-16						Jun-16				
	Jul-16						Jul-16						Jul-16				
	Aug-16						Aug-16 Sep-16						Aug-16 Sep-16				
	Sep-16 Oct-16					_	Oct-16					$\dashv$	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		18,132	60,619	13,680
	Feb-16						Feb-16						Feb-16				
	Mar-16						Mar-16						Mar-16				
	Apr-16						Apr-16					-	Apr-16				
	May-16 Jun-16					$\rightarrow$	May-16 Jun-16					$\dashv$	May-16 Jun-16				
	Jul-16					_	Jul-16					$\dashv$	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				





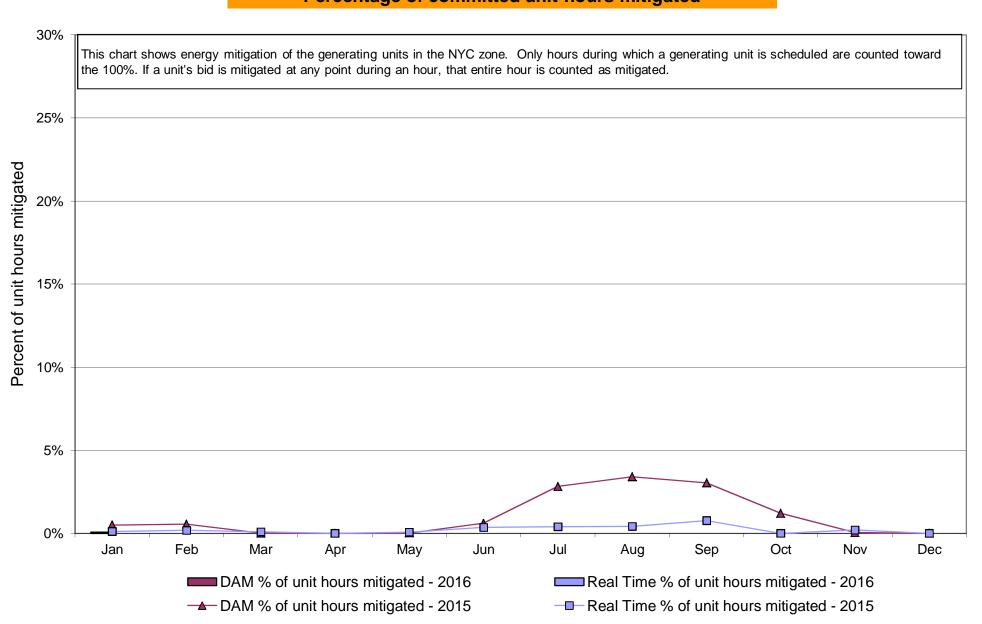


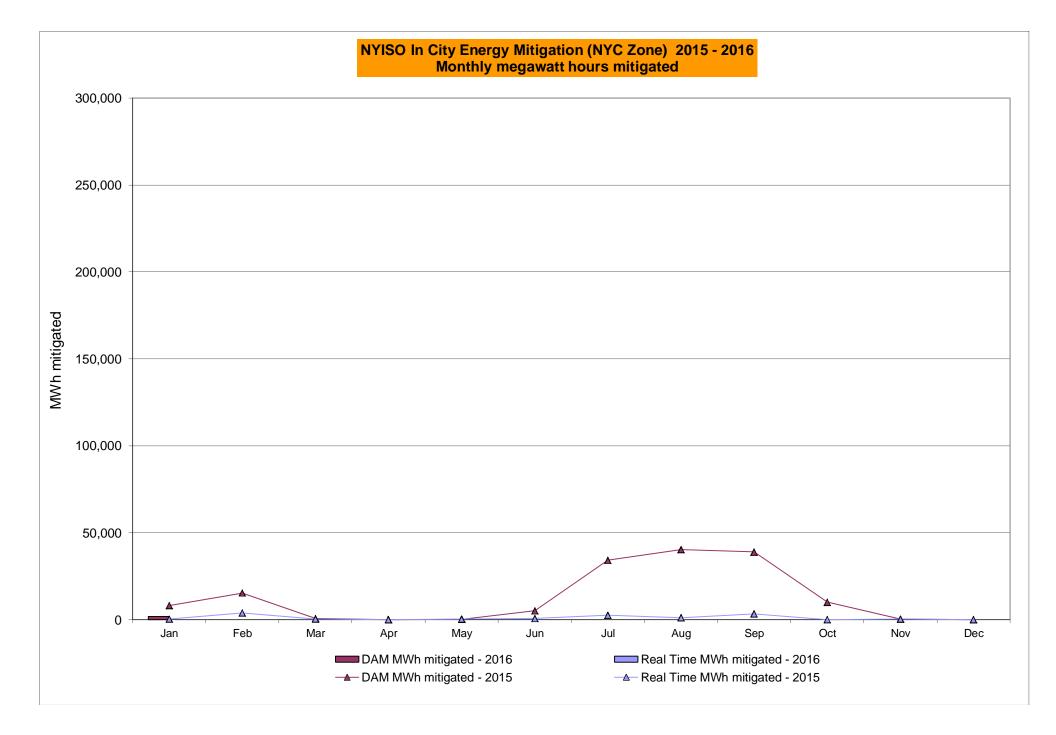


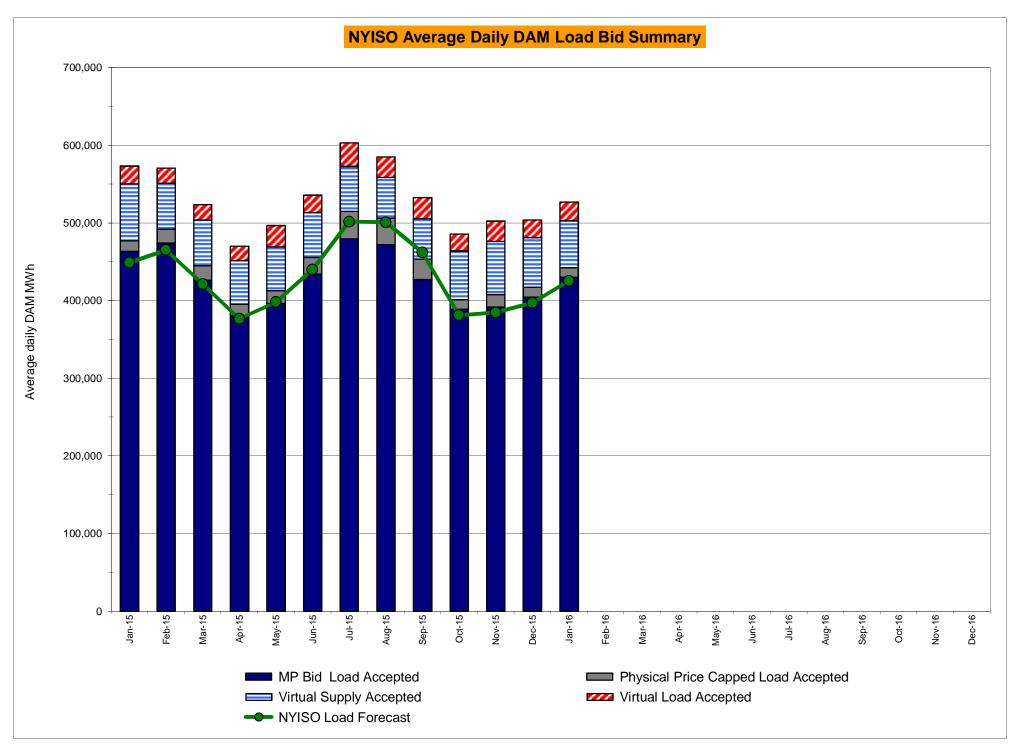
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

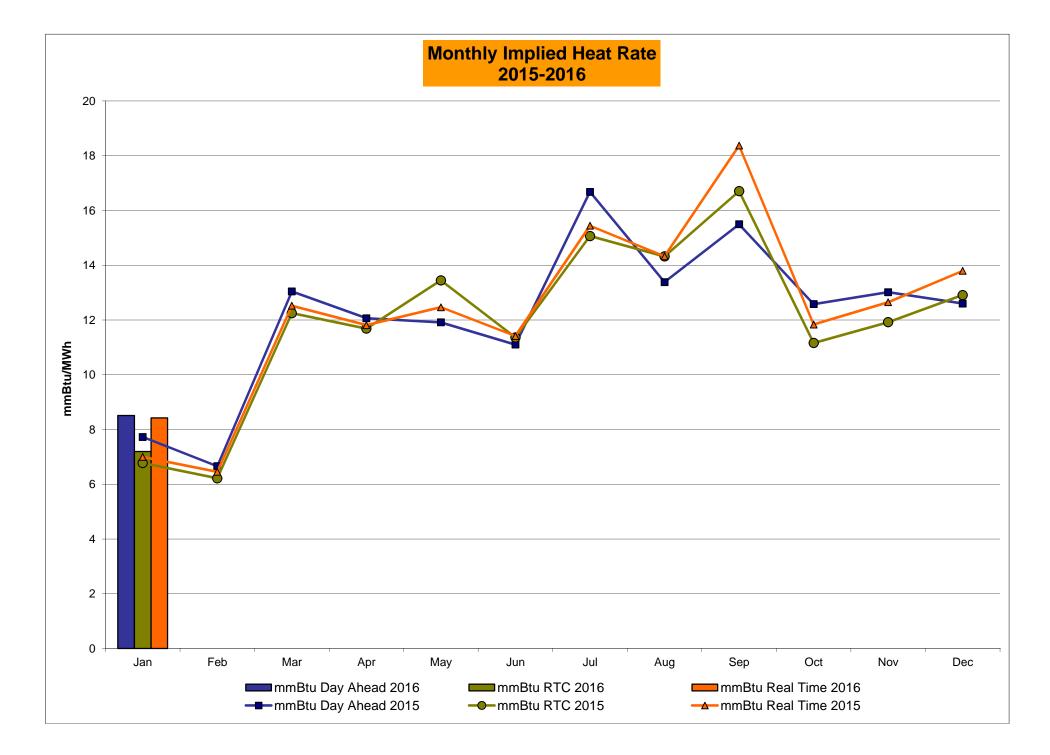
	-	11100 Mark	Ct3 Allolliai	y Oct vides	Otatiotics	Onweight	ca i nice (4	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				
<u>2016</u>	January	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market												<u> </u>
10 Min Spin East	7.09											
10 Min Spin West	6.28											
10 Min Non Synch East	6.47											
10 Min Non Synch West	6.23											
30 Min SENY	6.23											
30 Min East	6.23											
30 Min West	6.23											
Regulation	9.39											
-	9.59											
RTC Market												
10 Min Spin East	1.53											
10 Min Spin West	0.42											
10 Min Non Synch East	0.45											
10 Min Non Synch West	0.04											
30 Min SENY	0.01											
30 Min East	0.01											
30 Min West	0.01											
Regulation	8.04											
NYCA Regulation Movement	0.23											
Real Time Market												
10 Min Spin East	7.51											
10 Min Spin West	4.17											
10 Min Non Synch East	4.26											
10 Min Non Synch West	1.89											
30 Min SENY	0.06											
30 Min East	0.06											
30 Min West	0.06											
Regulation	10.66											
NYCA Regulation Movement	0.23											
<u>2015</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market												
10 Min Spin East	5.92	7.69	11.09	5.53	6.31	4.53	5.62	4.54	5.60	5.02	4.03	4.36
10 Min Spin West	4.07	5.40	5.68	4.16	3.69	2.84	2.26	2.36	2.20	2.68	3.47	4.22
10 Min Non Synch East	2.30	3.89	5.40	3.22	3.84	2.42	3.66	2.51	3.74	2.75	3.27	4.03
10 Min Non Synch West	0.90	1.79	1.97	1.91	1.45	0.77	0.45	0.36	0.49	0.45	2.77	4.02
30 Min SENY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.95	4.02
30 Min East	0.77	1.38	1.91	1.26	0.93	0.64	0.43	0.24	0.37	0.18	2.69	4.02
30 Min West	0.77	1.38	1.91	1.26	0.93	0.64	0.43	0.24	0.37	0.18	2.69	4.02
Regulation	8.84	19.65	9.27	7.94	7.48	8.20	8.20	8.61	7.71	7.29	9.10	9.30
	0.01	10.00	0.27	7.01	7.10	0.20	0.20	0.01	,,,,	7.20	0.10	0.00
RTC Market												
10 Min Spin East	1.20	3.27	2.64	2.77	4.36	1.18	1.44	1.86	2.76	0.67	1.35	2.62
10 Min Spin West	0.74	1.61	0.86	0.81	1.48	0.04	0.69	0.70	1.53	0.20	0.81	1.68
10 Min Non Synch East	0.01	0.48	0.01	0.00	1.54	0.87	0.28	0.57	0.84	0.01	0.16	0.01
10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
30 Min SENY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00
30 Min East	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
30 Min West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Regulation	7.45	11.32	8.13	7.56	7.06	7.24	7.97	8.07	8.49	6.73	8.12	8.83
NYCA Regulation Movement	0.21	0.21	0.16	0.22	0.16	0.24	0.25	0.23	0.24	0.23	0.22	0.22
Real Time Market												
10 Min Spin East	0.40	F 04	2.04	2 44	4.50	2.50	2.47	0.50	4 70	4.00	0.40	4 5 7
•	2.12	5.31	3.84	3.44	4.59	2.56	2.47	2.59	4.79	1.32	2.40	4.57
10 Min Spin West	1.44	3.11	1.83	1.46	0.81	0.38	1.04	0.59	2.65	0.59	1.20	3.53
10 Min Non Synch East	0.12	1.03	0.17	0.01	2.41	2.01	0.83	1.19	1.97	0.09	0.61	0.09
10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.02	0.33	0.00	0.00	0.05
30 Min SENY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.03
30 Min East	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.03

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

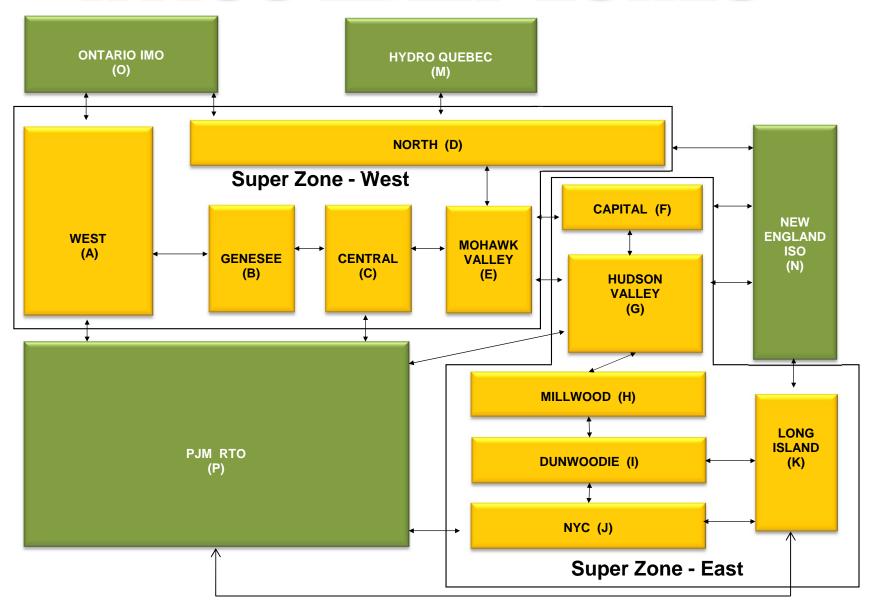








## NYISO LBMP ZONES



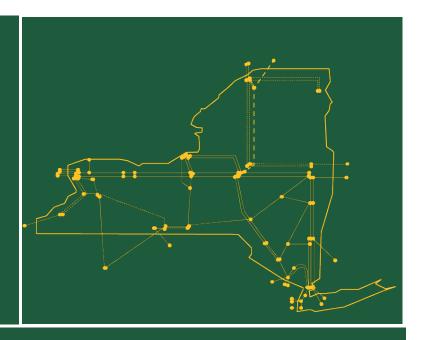
### **Billing Codes for Chart C**

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

Market Mitigation and Analysis Prepared: 2/2/2016 10:06 AM



The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



## www.nyiso.com