

# Proposal for the Annual ICAP, Annual Demand Response, and Semi-Annual Demand Response Reports

---

**Amanda Carney**  
Capacity Market Design

**Hoël Wiesner**  
ICAP Market Operations

**Installed Capacity Working Group**

July 18, 2018, Rensselaer, NY



# Agenda

- **Background/History**
- **Annual ICAP Report**
  - Respond to stakeholder comments
  - Updates since the 4/24/18 discussion
  - NYISO's proposal regarding future reporting
- **Annual & Semi-Annual Demand Response Reports**
  - Description of reports and proposal for future reporting

# Prior Discussions

Date	Working Group	Discussion points and links to materials
12-15-16	ICAPWG	Discussion with stakeholders regarding potential filing with FERC, requesting to discontinue compliance obligations to submit the Annual ICAP Report and Semi-Annual Demand Response Report
02-15-17	ICAPWG	Based on stakeholder requests, provided description of each section of the Annual ICAP Report and Semi-Annual Demand Response Report and the NYISO's proposal regarding each section
04-24-18	ICAPWG	Discussed proposal with stakeholders and took feedback

# History of the ICAP Annual Report

- The obligation originated in 2003 with FERC's orders in Docket No. ER03-647, which accepted the NYISO's ICAP Demand Curves.

# Annual ICAP Report

Updates since the last discussion on 4/24/18

# Historical Generator Status Document

- The NYISO proposes to add a tab to the current “Generator Status Updates” posting
  - The additional tab will contain a comprehensive list of generator status changes from 2009 to present.
  - See today’s meeting materials for a mock-up of this document.

# New Summary Document

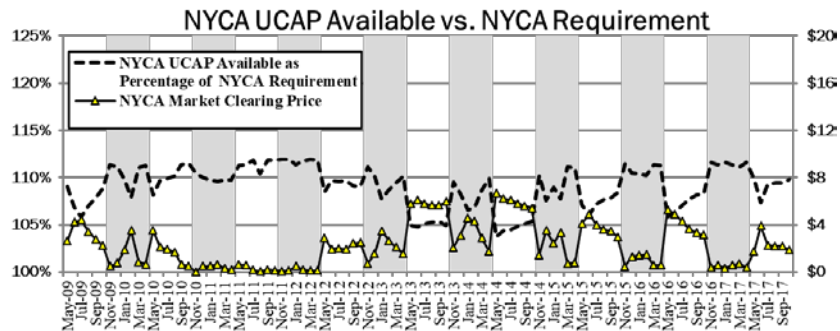
- For stakeholder convenience, the NYISO proposes to add a new posting to the NYISO website, which contains links to the alternate sources of ICAP Annual Report information.
- See today's meeting materials for a mock-up of this document.

# Monthly ICAP Market Report

- **This report will be expanded to include charts and data that are currently provided in Charts 1-9 of the Annual Report**
  - The new posted information will include the most recent 5 years of data from the from like Capability Period to like Capability period.
  - Additionally, the Monthly Report will begin providing Masked Unsold Spot Market Offer data, which is currently supplied in Attachment II of the Annual Report.
    - This information will be provided with a 4-month lag from the date of the auction, in adherence with Tariff timing restrictions for publishing this data.

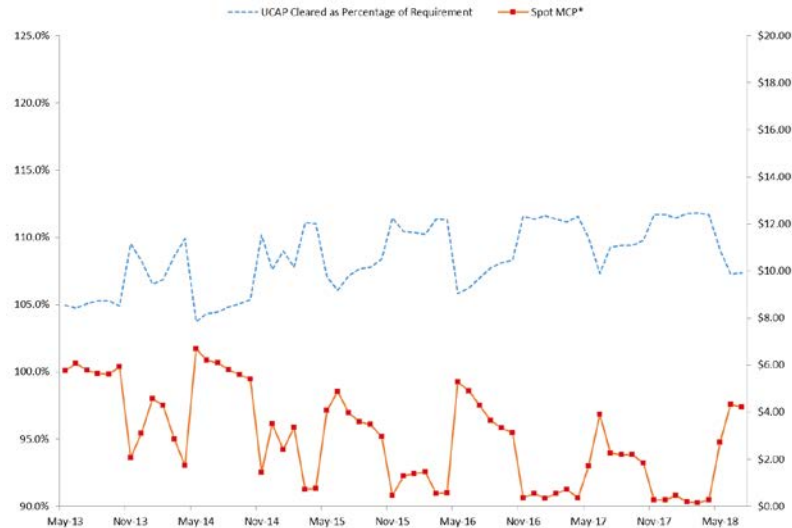


# Monthly ICAP Market Report



Annual ICAP Report Chart 1

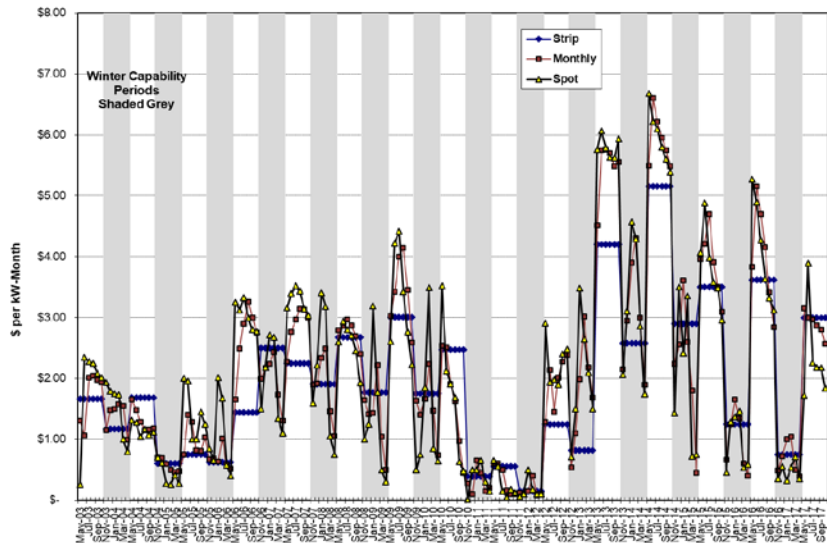
## NYCA Summary



New Charts for NYCA, GHJ, NYC, LI



# Monthly ICAP Market Report



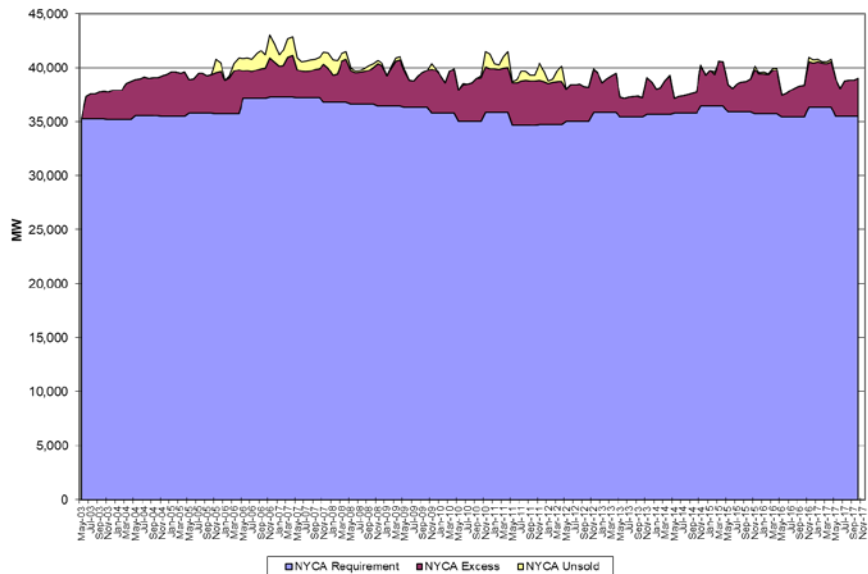
Annual ICAP Report Chart 2, 4, 6, 8



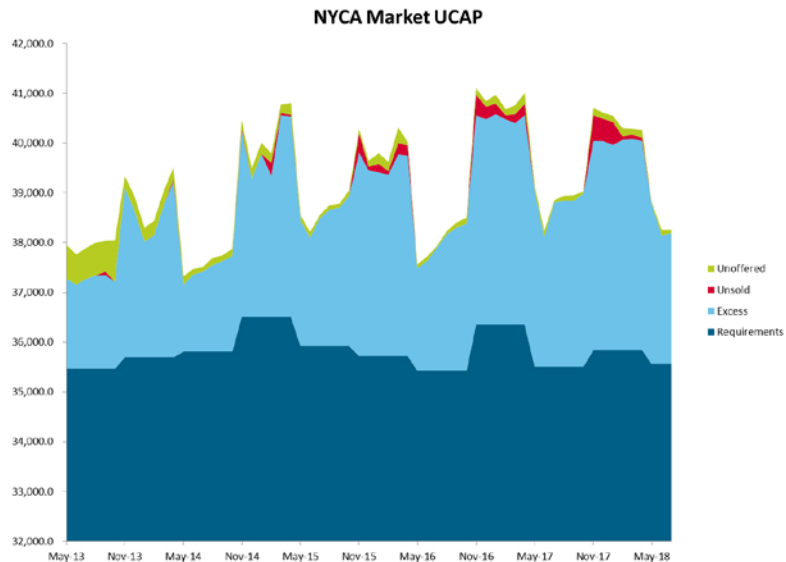
New Charts for NYCA, GHJ, NYC, LI



# Monthly ICAP Market Report



Annual ICAP Report Chart 3, 5, 7, 9



New Charts for NYCA, GHJ, NYC, LI



# Monthly ICAP Market Report

Tables for underlying data – Rolling 5 last Capability Years

Date	NYCA			
	UCAP Available	Requirements	UCAP Available as Percentage of Requirement	Spot MCP
Jul-18	38,187.60	35,561.70	107.38%	\$4.22
Jun-18	38,144.40	35,561.70	107.26%	\$4.33
May-18	38,780.80	35,561.70	109.05%	\$2.70
Apr-18	40,043.00	35,849.50	111.70%	\$0.25
Mar-18	40,086.30	35,849.50	111.82%	\$0.15
Feb-18	40,064.70	35,849.50	111.76%	\$0.20
Jan-18	39,959.30	35,849.50	111.46%	\$0.44
Dec-17	40,043.00	35,849.50	111.70%	\$0.25
Nov-17	40,043.00	35,849.50	111.70%	\$0.25
Oct-17	38,989.70	35,512.80	109.79%	\$1.84
Sep-17	38,845.50	35,512.80	109.38%	\$2.18
Aug-17	38,844.30	35,512.80	109.38%	\$2.18
Jul-17	38,811.80	35,512.80	109.29%	\$2.26
Jun-17	38,117.20	35,512.80	107.33%	\$3.89
May-17	39,042.00	35,512.80	109.94%	\$1.72

UCAP Available vs. Requirements

Date	NYCA			
	Requirements	Excess	Unsold	Unoffered
Jul-18	35,561.7	2,625.9	-	74.6
Jun-18	35,561.7	2,582.7	-	112.9
May-18	35,561.7	3,219.1	-	42.4
Apr-18	35,849.5	4,193.5	69.2	158.7
Mar-18	35,849.5	4,236.8	81.1	124.4
Feb-18	35,849.5	4,215.2	69.0	172.9
Jan-18	35,849.5	4,109.8	466.5	125.2
Dec-17	35,849.5	4,193.5	452.8	116.8
Nov-17	35,849.5	4,193.5	520.2	138.6
Oct-17	35,512.8	3,476.9	-	44.4
Sep-17	35,512.8	3,332.7	-	105.6
Aug-17	35,512.8	3,331.5	-	95.7
Jul-17	35,512.8	3,299.0	-	37.7
Jun-17	35,512.8	2,604.4	-	120.9
May-17	35,512.8	3,529.2	-	106.4

UCAP Offered and Unoffered

Date	NYCA		
	Strip	Monthly	Spot
Jul-18	\$ 1.75	\$ 3.50	\$ 4.22
Jun-18	\$ 1.75	\$ 2.60	\$ 4.33
May-18	\$ 1.75	\$ 1.90	\$ 2.70
Apr-18	\$ 0.37	\$ 0.10	\$ 0.25
Mar-18	\$ 0.37	\$ 0.15	\$ 0.15
Feb-18	\$ 0.37	\$ 0.25	\$ 0.20
Jan-18	\$ 0.37	\$ 0.25	\$ 0.44
Dec-17	\$ 0.37	\$ 0.30	\$ 0.25
Nov-17	\$ 0.37	\$ 0.31	\$ 0.25
Oct-17	\$ 3.00	\$ 1.85	\$ 1.84
Sep-17	\$ 3.00	\$ 2.09	\$ 2.18
Aug-17	\$ 3.00	\$ 2.24	\$ 2.18
Jul-17	\$ 3.00	\$ 3.15	\$ 2.26
Jun-17	\$ 3.00	\$ 3.00	\$ 3.89
May-17	\$ 3.00	\$ 3.15	\$ 1.72

Market Clearing Prices



# Monthly ICAP Market Report

AUCTION TYPE	AUCTION MONTH	LOCATION DESCRIPTION	Masked PTID Name	OFFER CAPACITY MW	OFFER PRICE	AWARDED CAPACITY MW	MARKET CLEARING PRICE	UNSOLD MW
Spot	Nov-2016	ROS	Offer I	36.2	\$1.00	0.0	\$0.35	36.2
Spot	Nov-2016	ROS	Offer II	50.0	\$0.95	0.0	\$0.35	50.0
Spot	Nov-2016	ROS	Offer III	50.0	\$0.85	0.0	\$0.35	50.0
Spot	Nov-2016	ROS	Offer IV	33.9	\$1.48	0.0	\$0.35	33.9
Spot	Nov-2016	ROS	Offer V	1.7	\$0.50	0.0	\$0.35	1.7
Spot	Nov-2016	ROS	Offer VI	50.0	\$0.90	0.0	\$0.35	50.0
Spot	Nov-2016	ROS	Offer VII	53.0	\$0.50	0.0	\$0.35	53.0
Spot	Nov-2016	ROS	Offer VIII	100.0	\$0.75	0.0	\$0.35	100.0
<b>Nov-2016 Total</b>								<b>374.8</b>
Spot	Dec-2016	ROS	Offer I	86.2	\$1.00	0.0	\$0.55	86.2
Spot	Dec-2016	ROS	Offer II	100.0	\$0.75	0.0	\$0.55	100.0
Spot	Dec-2016	ROS	Offer III	33.9	\$2.22	0.0	\$0.55	33.9
<b>Dec-2016 Total</b>								<b>220.1</b>
Spot	Jan-2017	ROS	Offer I	50.0	\$0.54	0.0	\$0.32	50.0
Spot	Jan-2017	ROS	Offer II	52.6	\$0.50	0.0	\$0.32	52.6
Spot	Jan-2017	ROS	Offer III	33.9	\$2.22	0.0	\$0.32	33.9
Spot	Jan-2017	ROS	Offer IV	1.7	\$0.35	0.0	\$0.32	1.7
Spot	Jan-2017	ROS	Offer V	50.0	\$0.77	0.0	\$0.32	50.0
<b>Jan-2017 Total</b>								<b>188.2</b>
Spot	Feb-2017	ROS	Offer I	33.9	\$2.22	0.0	\$0.54	33.9
Spot	Feb-2017	ROS	Offer II	50.0	\$0.54	39.6	\$0.54	10.4
<b>Feb-2017 Total</b>								<b>44.3</b>
Spot	Mar-2017	ROS	Offer I	50.0	\$1.09	0.0	\$0.71	50.0
Spot	Mar-2017	ROS	Offer II	50.0	\$1.32	0.0	\$0.71	50.0
Spot	Mar-2017	ROS	Offer III	50.0	\$0.86	0.0	\$0.71	50.0
<b>Mar-2017 Total</b>								<b>150.0</b>
Spot	Apr-2017	ROS	Offer I	50.0	\$1.01	0.0	\$0.35	50.0
Spot	Apr-2017	ROS	Offer II	50.0	\$0.35	10.7	\$0.35	39.3
Spot	Apr-2017	ROS	Offer III	50.0	\$0.57	0.0	\$0.35	50.0
Spot	Apr-2017	ROS	Offer IV	1.7	\$0.50	0.0	\$0.35	1.7
Spot	Apr-2017	ROS	Offer V	50.0	\$0.79	0.0	\$0.35	50.0
<b>Apr-2017 Total</b>								<b>191.0</b>
<b>Grand Total</b>								<b>1168.4</b>

## Annual ICAP Report Attachment II Unsold Capacity Offers (Masked\*)

\*Masked to the extent necessary to protect Confidential Information, and subject to any restrictions on the disclosure.

DRAFT - FOR DISCUSSION PURPOSES ONLY

©COPYRIGHT NYISO 2017. ALL RIGHTS RESERVED

Month	Offer Capacity				Unsold	
	Offer Capacity	Offer Price	MCP	Awarded Capacity	MW	
Mar-18	18.1	\$ 0.15	\$ 0.15	6.2	11.9	
Mar-18	0.8	\$ 0.50	\$ 0.15	0	0.8	
Mar-18	30.6	\$ 0.65	\$ 0.15	0	30.6	
Feb-18	0.8	\$ 0.50	\$ 0.20	0	0.8	
Feb-18	30.4	\$ 2.47	\$ 0.20	0	30.4	
Jan-18	0.8	\$ 0.50	\$ 0.44	0	0.8	
Jan-18	4.5	\$ 0.75	\$ 0.44	0	4.5	
Jan-18	77.6	\$ 0.75	\$ 0.44	0	77.6	
Jan-18	18	\$ 0.75	\$ 0.44	0	18	
Jan-18	77.6	\$ 0.85	\$ 0.44	0	77.6	
Jan-18	18	\$ 0.85	\$ 0.44	0	18	
Jan-18	4.5	\$ 0.85	\$ 0.44	0	4.5	
Jan-18	77.6	\$ 0.95	\$ 0.44	0	77.6	
Jan-18	18	\$ 0.95	\$ 0.44	0	18	
Jan-18	4.5	\$ 0.95	\$ 0.44	0	4.5	
Jan-18	77.5	\$ 1.05	\$ 0.44	0	77.5	
Jan-18	4.3	\$ 1.05	\$ 0.44	0	4.3	
Jan-18	18	\$ 1.05	\$ 0.44	0	18	

## New Unsold Table (Masked\*)



# Monthly ICAP Market Report

New Unsold Table will contain masked unsold ROS bids from 4-month prior to comply with the timeline outlined in Section 6.3 of the NYISO Market Services Tariff and to remain consistent with current NYISO postings:

“Disclosure of Bid Information Pursuant to Commission requirements, the ISO shall make public Bid information from the Energy, Capacity and Ancillary Services markets, including Bids submitted for Virtual Transactions, but not the names of the bidders making any of these Bids, three months after the Bids are submitted. The ISO shall post the data in a way that permits third parties to track each individual bidder’s Bids over time. Prior to such disclosure, Bid information submitted to the ISO by Market Participants shall be considered Confidential Information”

Month	Offer Capacity	Offer Price	MCP	Awarded Capacity	Unsold MW
Mar-18	18.1	\$ 0.15	\$ 0.15	6.2	11.9
Mar-18	0.8	\$ 0.50	\$ 0.15	0	0.8
Mar-18	30.6	\$ 0.65	\$ 0.15	0	30.6
Feb-18	0.8	\$ 0.50	\$ 0.20	0	0.8
Feb-18	30.4	\$ 2.47	\$ 0.20	0	30.4
Jan-18	0.8	\$ 0.50	\$ 0.44	0	0.8
Jan-18	4.5	\$ 0.75	\$ 0.44	0	4.5
Jan-18	77.6	\$ 0.75	\$ 0.44	0	77.6
Jan-18	18	\$ 0.75	\$ 0.44	0	18
Jan-18	77.6	\$ 0.85	\$ 0.44	0	77.6
Jan-18	18	\$ 0.85	\$ 0.44	0	18
Jan-18	4.5	\$ 0.85	\$ 0.44	0	4.5
Jan-18	77.6	\$ 0.95	\$ 0.44	0	77.6
Jan-18	18	\$ 0.95	\$ 0.44	0	18
Jan-18	4.5	\$ 0.95	\$ 0.44	0	4.5
Jan-18	77.5	\$ 1.05	\$ 0.44	0	77.5
Jan-18	4.3	\$ 1.05	\$ 0.44	0	4.3
Jan-18	18	\$ 1.05	\$ 0.44	0	18

New Unsold Table (Masked)



# Monthly ICAP Market Report

Proposed addition: historical data from the Monthly ICAP Market  
Report to facilitate data tracking and analysis

Date	Spot Auction Price (\$/kW-Month)	Locational EFORD	Generation UCAP Available*	SCR UCAP Available	Imports	Exports	Gen Unoffered MW	SCR Unoffered MW	Resale Unoffered MW**	Unsold MW	Total MW Cleared***	UCAP Requirements	MW Cleared Above Requirements	% Cleared Above Requirements
Jul-18	\$4.22	8.56%	36,717.0	1,276.8	1,213.6	945.2	11.4	0.4	62.8	0.0	38,187.6	35,561.7	2,625.9	7.38%
Jun-18	\$4.33	8.56%	36,759.3	1,271.9	1,168.1	942.0	46.6	1.3	65.0	0.0	38,144.4	35,561.7	2,582.7	7.26%
May-18	\$2.70	8.56%	36,504.2	1,246.9	1,563.5	491.4	23.2	1.2	18.0	0.0	38,780.8	35,561.7	3,219.1	9.05%
Apr-18	\$0.25	8.43%	38,657.0	868.5	1,304.2	558.8	93.5	10.7	54.5	69.2	40,043.0	35,849.5	4,193.5	11.70%
Mar-18	\$0.15	8.43%	38,885.9	877.8	967.5	439.4	57.8	7.1	59.5	81.1	40,086.3	35,849.5	4,236.8	11.82%
Feb-18	\$0.20	8.43%	38,899.8	893.1	953.0	439.3	111.6	7.7	53.6	69.0	40,064.7	35,849.5	4,215.2	11.76%
Jan-18	\$0.44	8.43%	38,894.1	896.3	1,198.6	438.0	107.8	10.3	7.1	466.5	39,959.3	35,849.5	4,109.8	11.46%
Dec-17	\$0.25	8.43%	38,896.1	889.0	1,327.9	500.4	85.0	4.9	26.9	452.8	40,043.0	35,849.5	4,193.5	11.70%
Nov-17	\$0.25	8.43%	38,851.2	868.0	1,671.4	688.8	96.7	6.5	35.4	520.2	40,043.0	35,849.5	4,193.5	11.70%
Oct-17	\$1.84	9.29%	36,239.1	1,239.7	2,257.7	702.4	14.9	11.5	18.0	0.0	38,989.7	35,512.8	3,476.9	9.79%
Sep-17	\$2.18	9.29%	36,242.9	1,201.7	2,306.2	799.7	44.9	12.9	47.8	0.0	38,845.5	35,512.8	3,332.7	9.38%
Aug-17	\$2.18	9.29%	36,232.6	1,203.6	1,989.2	485.4	77.8	3.0	14.9	0.0	38,844.3	35,512.8	3,331.5	9.38%
Jul-17	\$2.26	9.29%	36,212.1	1,190.0	1,979.2	531.8	20.2	2.2	15.3	0.0	38,811.8	35,512.8	3,299.0	9.29%
Jun-17	\$3.89	9.29%	36,147.4	1,154.3	1,421.6	485.2	55.0	5.1	60.8	0.0	38,117.2	35,512.8	2,604.4	7.33%
May-17	\$1.72	9.29%	36,103.5	1,150.6	2,202.7	308.4	62.4	39.4	4.6	0.0	39,042.0	35,706.5	3,335.5	9.34%

Example table for NYCA



# Alternative Withholding Analysis

- The NYISO is still working through a proposal for the alternative withholding analysis. We will return to future working groups to discuss this topic.



# NYISO Commitment to Continue Posting Data

- In the filing to FERC asking to discontinue the filing obligation for the Report, NYISO will affirm its commitment to continue providing the information discussed in this presentation in its alternate locations.

# Annual and Semi-Annual Demand Response Reports

NYISO's proposal regarding future reporting

# Annual and Semi-Annual Demand Response Reports

- Proposal to post to the NYISO website a single annual report, as presented at the February 15, 2017 ICAPWG
  - See appendix

# Annual ICAP & Annual and Semi-Annual Demand Response Reports

NYISO's proposal regarding future reporting

# Elimination of Filing Obligation

- Given the information provided elsewhere, the NYISO proposes to discontinue the annual reporting obligation for the ICAP Annual Report and Annual and Semi-Annual Demand Response Reports.

# Next Steps

# Next Steps

- Incorporating stakeholder feedback
- Return to future working groups to discuss open items, which include
  - Alternative withholding analysis
- FERC Filing

# Questions?



# 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



[www.nyiso.com](http://www.nyiso.com)

# Appendix

## Annual and Semi-Annual Demand Response Reports

# Annual and Semi-Annual Demand Response Reports

- **The NYISO proposes to**
  - Post on its website, a single annual report containing all information currently included in the annual (January) report to FERC
  - Discontinue the obligation to file with FERC the annual report and to file and prepare the semi-annual (June) report
- **The June report duplicates significant information in the January report**
- **Most of this information is relatively static from report to report. For instance, the four DSM programs have evolved, and are updated by the NYISO from time-to-time, but any changes to those programs tend to be fairly incremental**
- **It would be more efficient to annually post the information on DSM now contained in the annual DSM rather than filing a report**