

THIS FILING LETTER DOES NOT CONTAIN ANY PRIVILEGED OR CONFIDENTIAL INFORMATION. THE BODY OF REPORT ALONG WITH THE REDACTED VERSIONS OF TABLES 2, 3 AND 4 (MARKED PUBLIC) DO NOT CONTAIN ANY PRIVILEGED OR CONFIDENTIAL INFORMATION. ATTACHMENT 1 TO THE REPORT INCLUDES THE UNREDACTED TABLES WHICH CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION, AND ARE SUBMITTED SEPARATELY.

January 17, 2012

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Annual Report in Docket Nos. ER01-3001-000 and
Request for Privileged Treatment of Attachment 1

Dear Ms. Bose:

Enclosed for filing in the above-referenced docket is the New York Independent System Operator's ("NYISO") annual report to the Federal Energy Regulatory Commission ("Commission") on the NYISO's Demand Side Management programs. By Order dated February 19, 2010, the Commission directed the NYISO to file this report for informational purposes only.¹

I. List of Documents Submitted

The NYISO submits the NYISO Report on Demand Response Programs, which includes redactions in Tables 2 through 4 of confidential, commercially sensitive information, and separately Attachment 1, which contains the unredacted versions of Tables 2 through 4.

II. Request for Confidential Treatment of Attachments 1 and 2 of Report Section I

In accordance with Sections 388.107 and 388.112 of the Commission's Regulations,² Article 6 of the NYISO's Market Administration and Control Area Services Tariff, Sections 1.0(4) and 4.0 of the NYISO's Code of Conduct, the NYISO requests Privileged and

¹ *New York Independent System Operator, Inc.*, Order, Docket Nos. ER01-3001 and ER03-647 (Feb. 19, 2010).

² 18 C.F.R. §§ 388.107 and 388.112 (2011).

Confidential treatment of the contents of Attachment 1. The NYISO also requests that Confidential Attachments be exempted from public disclosure under the Freedom of Information Act ("FOIA"), 5 U.S.C. §522.³

The confidential Attachment contain privileged, commercially sensitive, trade secret information that is not made public by the NYISO. Disclosure of such information could cause competitive harm to the affected Market Participants,⁴ and could adversely affect competition in the markets administered by the NYISO. This information includes the number of demand response resources in a load zone that, when aggregated, are not greater than five (5). With such a small number of resources in the load zone, the NYISO's aggregation of the data reported for that load zone may not sufficiently mask confidential and commercially sensitive Market Participant information. Further, because this confidential, commercially sensitive information is exempt from disclosure under 5 U.S.C. §522(b)(4) for this reason, the NYISO requests that the contents of Attachment 1 receive Privileged and Confidential treatment and be exempt from FOIA disclosure. Attachment 1 is identified and marked in accordance with the Commission's regulations and rules published by the Secretary's Office for submitting Privileged information.

III. Correspondence

Copies of correspondence concerning this filing should be addressed to:

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Respectfully submitted,

³ The information provided by the NYISO for which the NYISO claims an exemption from FOIA disclosure is labeled "Contains Privileged Information - Do Not Release."

⁴ Terms with initial capitalization not defined herein have the meaning set forth in the NYISO's Market Administration and Control Area Services Tariff.

Kimberley D. Bose, Secretary
January 17, 2012
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CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding in accordance with the requirements of Rule 2010 of the Rules of Practice and Procedure, 18 C.F.R. §385.2010.

Dated at Rensselaer, NY this 17th day of January, 2012.

/s/ Joy A. Zimmerlin

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NYISO 2011 Annual Report on Demand Response Programs

Program Descriptions

The New York Independent System Operator, Inc. (“NYISO”) offers two demand response programs that support reliability: the Emergency Demand Response Program¹ (“EDRP”) and the Installed Capacity-Special Case Resource Program (“ICAP/SCR”). In addition, demand response resources may participate in the NYISO’s energy market through the Day-Ahead Demand Response Program (“DADRP”), or the Ancillary Services market through the Demand-Side Ancillary Services Program (“DSASP”).

EDRP provides demand resources with the opportunity to earn the greater of \$500/MWh or the prevailing locational-based marginal price (“LBMP”) for energy consumption curtailments provided when the NYISO calls on the resource. There are no consequences for enrolled EDRP resources that fail to curtail. Resources participate in EDRP through Curtailment Service Providers (“CSPs”), which serve as the interface between the NYISO and resources.

The ICAP/SCR program allows demand resources that meet certification requirements to offer Unforced Capacity (“UCAP”) to Load Serving Entities (“LSEs”). Special Case Resources can participate in the Installed Capacity (“ICAP”) Market just like any other ICAP Resource; however, Special Case Resources participate through Responsible Interface Parties, which serve as the interface between the NYISO and resources. Resources are obligated to curtail when called upon to do so with two or more hours notice, provided the NYISO notify the Responsible Interface Party a day ahead of the possibility of such a call. In addition, ICAP/SCR resources are subject to testing each Capability Period to verify that they can fulfill their curtailment requirement. Failure to curtail could result in penalties administered under the ICAP program. Curtailments are called by the NYISO when reserve shortages are anticipated. Resources may register for either EDRP or ICAP/SCR but not both. Special Case Resources are eligible for an energy payment during an event, using the same performance calculation as EDRP resources.

The Targeted Demand Response Program (“TDRP”), introduced in July 2007, is a NYISO reliability program that deploys existing EDRP and SCR resources on a voluntary basis,

¹ Terms in upper case not defined herein have the meaning ascribed to them in the NYISO’s Market Administration and Control Area Services Tariff.

at the request of a Transmission Owner, in targeted subzones to solve local reliability problems. The TDRP program is currently available in Zone J, New York City.

The DADRP program provides demand resources with an opportunity to offer their load curtailment capability into the Day-Ahead Market (“DAM”) as an energy resource. Resources submit offers by 5:00 a.m. specifying the hours and amount of load curtailment they are offering for the next day, and the price at which they are willing to curtail. Prior to November 1, 2004, the minimum offer price was \$50/MWh. The offer floor price currently is \$75/MWh. Offers are structured like those of generation resources: DADRP program resources may specify minimum and maximum run times and the hours that they are available. They are eligible for Bid Production Cost guarantee payments to make up for any difference between the market price received and their block offer price across the day. Load scheduled in the DAM is obligated to curtail the next day. Failure to curtail results in the imposition of a penalty for each such hour equal to the product of the MW curtailment shortfall and the greater of the corresponding DAM or Real-Time Market price of energy.

The DSASP program, introduced in June 2008, provides demand resources that meet telemetry and other qualification requirements an opportunity to offer their load curtailment capability into the DAM and/or Real-Time Market to provide Operating Reserves and Regulation Service. DSASP resources must qualify to provide Operating Reserves or Regulation Service through standard resource testing requirements. Offers are submitted through the same process as generation resources. Resources submit offers by 5:00 a.m. specifying the ancillary service they are offering (Spinning or Non-Synchronous Reserves, and/or Regulation, if qualified) along with the hours and amount of load curtailment for the next day, and the price at which they are willing to curtail. Real-time offers may be made up to 75 minutes before the hour of the offer. Although DSASP resources are not scheduled for energy in the DAM, they are required to submit energy offers, which are used in the co-optimization algorithm for dispatching operating reserve resources. Similar to the DADRP, the energy offer floor price is currently \$75/MWh. DSASP resources are not paid for energy. They are eligible for a Day-Ahead Margin Assurance Payment to make up for any balancing difference between their Day-Ahead Reserve or Regulation schedule and Real-Time dispatch, subject to their performance for the scheduled service. Performance indices are calculated on an interval basis for both Reserves and Regulation. Payment is adjusted by the performance index for the service provided.

Summary of Significant Findings

Emergency Demand Response Program / ICAP Special Case Resources

As of July 31, 2011², a total of 35 CSPs and Responsible Interface Parties have resources enrolled in the NYISO's EDRP and/or ICAP/SCR programs³. This level of participation represents a reduction of two load serving entities, eleven aggregators, four transmission owners, and five resources representing themselves (referred to herein as a "direct resource") since 2010 figures. Participating CSPs and RIPs include:

- 4 Transmission Owners
- 3 Load Serving Entities not affiliated with a Transmission Owner ("Competitive LSE")
- 20 aggregators that are not Load Serving Entities or Transmission Owners
- 7 EDRP or ICAP/SCR direct resources

Resource representatives that are not Transmission Owners or affiliates thereof, including Load Serving Entities not affiliated with Transmission Owners and aggregators, currently sponsor 59.5% of the total EDRP and ICAP/SCR enrolled MW, down from the 75.4% enrolled in 2010. In 2011, one non-Transmission Owner had resources enrolled in the EDRP program; all other EDRP resources were enrolled through Transmission Owners. Direct resources represent 7.7% of the enrolled MW in the ICAP/SCR program or 6.9% of the combined reliability program MW.

EDRP and ICAP/SCR had a total of 5,807 end-use locations enrolled capable of providing a total of 2,173.2 MW of demand response capability, a 13% decrease over the 2010 MW

² For several years, August 31 has been the date customarily used for reporting NYISO's demand response program participation statistics. In 2011, the NYISO made a change from reporting demand response enrollment as of August 31 each year to July 31 of each year to better align with several other reporting requirements for reliability and planning. Reporting as of July 31 also provides transparency with other reporting requirements for demand response. The NYISO evaluated the difference in enrollment between July and August and found it to be nominal (2% - 3%).

³ The report on reliability programs is based on a snapshot of the programs as of July 31, 2011.

enrollment level. The demand response resources in NYISO reliability programs represent 6.4% of the 2011 Summer Capability Period peak demand of 33,866 MW, a nominal reduction from 2010. There were 417 end-use locations in EDRP (200 EDRP plus 217 Unsold SCRs) and 5,390 end-use locations in ICAP/SCR. ICAP/SCR represents 93% of the total resources enrolled in the NYISO's reliability programs and 91% of the reliability programs' total enrolled MW. The 2011 SCR enrollments increased 32% while the enrolled MWs off load reduction decreased 13% over 2010. The Targeted Demand Response Program, which deploys EDRP and ICAP/SCR resources in subzones of Zone J (New York City) for local reliability, included 56% of total NYCA EDRP end-use locations and encompassed 34% of total NYCA EDRP MW. The TDRP also included 46% of total NYCA ICAP/SCR end-use locations, representing 23% of the total NYCA enrolled ICAP/SCR MW, an increase of 2% and a decrease of 1%, respectively.

Since participation in EDRP and ICAP/SCR became mutually exclusive, EDRP end-use locations and MW have continued to decrease while ICAP/SCR end-use locations and MW have increased, as expected, given the monthly reservation payment associated with the ICAP/SCR program. Aggregations by Responsible Interface Parties now account for 97.2% of ICAP/SCR resources and 65% of enrolled MW in the program, a decrease from 2010 in enrolled MW of almost 3.6%.

There were two deployments of the ICAP/SCR and EDRP programs during July 2011. The NYISO deployments of the ICAP/SCR and EDRP programs occurred from 1:00 p.m. to 6:00 p.m. (HB 13 through HB 17) for zones G through K on July 21, 2011, from 12:00 p.m. to 6:00 p.m. (HB 12 through HB 17) on July 22, 2011 in zone J, and from 1:00 p.m. to 6:00 p.m. (HB 13 through HB 17) in zones A, B, C, E, F, G, H, I, and K on July 22, 2011. Details on the 2011 demand response events is provided in the section titled "2011 Event Performance for Emergency Demand Response Program and ICAP Special Case Resources."

Day-Ahead Demand Response Program

During the analysis period of September 2010 through August 2011, only one resource made offers for a period on a single day and the resource was scheduled for only two of the hours it offered its reduction and for fewer than three MW in each of those two hours. Given the minimal activity in DADRP during the analysis period, there is nothing material to report for this period.

Participation in Reliability-Supporting Demand Response Programs

Aggregation of ICAP/SCR Resources

Enrollments for ICAP/SCR resources are tracked by both (a) end-use location and (b) Program ID. Program IDs, used to identify demand resources⁴ in NYISO's systems, may represent individually enrolled end-use locations or aggregations of end-use locations enrolled as a single resource. Table 1 indicates that there are a total of 99 aggregations represented by Responsible Interface Parties, collectively containing a total of 5,315 end-use locations with 1,697.7 MW of the total 1,976.2 MW of enrolled ICAP/SCR. Seventy-five (75) individually enrolled resources account for 278.5 MW.

Table 1: Detail of 2011 ICAP/SCR Program Participation Level by Resource Type

Resource Type	ICAP [^]			ICAP Unsold		
	# Program IDs	# End-use Locations	Sold MW	# Program IDs	# End-use Locations	Enrolled MW
Individual Resources	75	75	278.5	13	13	43.6
Aggregated Resources	99	5315	1697.7	19	204	4.9
Total	174	5390	1976.2	32	217	48.6

MW represent the ICAP equivalent MW sold in the ICAP market in July 2011.

[^] Nine individual resources, with a total ICAP equivalent of 30 MW have been omitted from enrollment and event performance reporting until data submission issues are resolved.

The right-hand section of Table 1 provides information for ICAP/SCR resources that did not sell MW in the July 2011 capacity market auctions. In cases where an ICAP/SCR resource offers load reduction in a NYISO auction and it is not sold, or when the resource's derated MW value is zero, that resource is automatically included in the EDRP program at its enrolled MW value until the next auction or until the resource confirms a bilateral transaction with an LSE. The EDRP program totals reported include the offered, but unsold MW of enrolled ICAP/SCR resources.

⁴ A resource is defined as a single end-use location enrolled in a program individually or an aggregation of end-use locations enrolled as a unit; resources are identified by a Program ID.

EDRP and ICAP/SCR Program Enrollment

At the end of July 2011, the NYISO's reliability programs had a total of 5,807 end-use locations enrolled, providing a total of 2,172.9 MW of demand response capability, a 13% reduction over the 2010 MW enrollment level. There were 417 end-use locations in EDRP (200 EDRP resources + 217 ICAP/SCR Unsold resources) and 5,390 end-use locations in ICAP/SCR. ICAP/SCR represents 93% of the total reliability program resources and 91% of the total reliability program MW, a decrease of 13% in the ICAP/SCR program.

Table 2: 2011 Program Enrollment Summary by Curtailment Service Provider Type

CSP Type #	Agent Type	EDRP ⁽¹⁾			ICAP Unsold ⁽²⁾			ICAP ^{(3)A}			DADRP ⁽⁴⁾		
		# CSP	# End-use Locations	Enrolled MW	# RIP	# End-use Locations	Enrolled MW	# RIP	# End-use Locations	ICAP MW	# DRP	# End-use Locations	MW
20	Aggregator	1	*	0.3	8	144	4.7	20	4535	1010.2	1	*	9.0
0	End-Use Customer	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
7	Direct Customer	0	0	0.0	1	*	40.8	7	39	152.1	0	0	0.0
4	LSE	0	0	0.0	2	69	3.0	3	707	274.9	2	*	15.0
4	Transmission Owner	3	*	147.8	1	*	0.1	4	109	538.9	1	*	13.0
35	Total	4	200	148.1	12	217	48.6	34	5390	1976.2	4	4	37.0

* Number of end-use locations by category is fewer than 5 and has been masked for this public version of the table. The unredacted values are presented in the confidential appendix submitted as Attachment 1.

Note 1: The sum of EDRP and SCR Unsold Enrolled MW = Total EDRP.

Note 2: Resources in the ICAP/SCR program with Unsold capacity are considered EDRP resources in the month(s) that capacity is unsold. MW represent Enrolled MW in the ICAP program, but not sold.

Note 3: MW represent the ICAP equivalent MW sold in the ICAP market in July 2011.

Note 4: Total NYISO enrollment is not necessarily the sum of all programs due to the rules that state that end-use locations are allowed to participate in a reliability program (EDRP or ICAP) and economic (DADRP or DSASP).

^A Nine individual resources, with a total ICAP equivalent of 30 MW have been omitted from enrollment and event performance reporting until data submission issues are resolved.

Table 2 shows the total number of CSPs enrolled for 2011 in the first column and the number of CSPs, by type, with the number of end-use locations and enrolled MW for each of the program categories. This table provides the enrollment detail by program and CSP type.

Enrollments in EDRP in 2011 were predominantly through Transmission Owners. ICAP/SCR enrollments by aggregators provide 84.1% of participating end-use locations and 51.1% of the enrolled MW.

Table 3 shows program enrollment detail by Load Zone. Although statistics on resource class are not collected, resources in Zones A through E are typically industrial and retail resources, while those in Zones J and K include commercial office, retail, and multi-family residential resources.

Table 3: 2011 Program Enrollment by Zone

Zone	EDRP ⁽¹⁾		ICAP Offered/Unsold ⁽²⁾		ICAP ^{(3)A}		DADRP ⁽⁴⁾	
	#	Enrolled MW	#	Enrolled MW	#	ICAP MW	#	MW
A	13	10.5	16	42.3	522	347.8	0	0.0
B	*	1.0	9	0.1	264	120.5	0	0.0
C	27	15.1	*	0.0	366	136.9	0	0.0
D	8	3.7	*	0.1	23	457.6	0	0.0
E	26	25.1	9	1.0	168	45.6	0	0.0
F	10	5.3	5	0.2	213	137.7	*	28.0
G	13	17.1	*	0.2	167	67.1	*	9.0
H	*	1.8	0	0.0	26	10.1	0	0.0
I	13	3.7	*	0.2	149	36.9	0	0.0
J	86	64.8	148	2.7	2496	464.1	0	0.0
K	0	0.0	22	1.9	996	152.0	0	0.0
Total	200	148.1	217	48.6	5390	1976.2	4	37.0

* Number of end-use locations by category is fewer than 5 and has been masked for this public version of the table. The unredacted values are presented in the confidential appendix submitted as Attachment 1.

Note 1: The sum of EDRP and SCR Unsold Enrolled MW = Total EDRP.

Note 2: Resources in the ICAP/SCR program with Unsold capacity are considered EDRP resources in the month(s) that capacity is unsold. MW represent Enrolled MW in the ICAP program, but not sold.

Note 3: MW represent the ICAP equivalent MW sold in the ICAP market in July 2011.

Note 4: Total NYISO enrollment is not necessarily the sum of all programs due to the rules that state that end-use locations are allowed to participate in a reliability program (EDRP or ICAP) and economic (DADRP or DSASP). Nine

^ individual resources, with a total ICAP equivalent of 30 MW have been omitted from enrollment and event performance reporting until data submission issues are resolved.

Targeted Demand Response Program Enrollment

Load Zone J currently is the only Load Zone with resources assigned to the Targeted Demand Response Program. This Zone has been divided into subzones designated by Consolidated Edison Company of New York, Inc. (“Con Edison”) Resources enrolled in EDRP and ICAP/SCR are assigned to one of the various subzones based on their location. Unassigned resources remain in the general Zone J category (J9: Shared Subzone). The sub-load pockets correspond to the following Con Edison network area substation groupings:

- J1: Sherman Creek/Parkchester/E
179th
- J2: Astoria West/Queensbridge
- J3: Vernon/Greenwood •
- J4: Staten Island
- J5: Astoria East/Corona/Jamaica

- J6: W 49th

- J8: Farragut/Rainey

- J7: E13th/East River

- J9: Shared Subzone

Table 4: EDRP End-use Locations enrolled in the Targeted Demand Response Program - Zone J

	J1	J2	J3	J4	J5	J6	J7	J8	J9	Total
MW	0.4	1.0	6.9	0.8	7.3	2.2	2.2	1.0	43.0	64.8
End-use Locations	5	6	19	*	21	7	9	14	*	86

*Number of end-use locations by category is fewer than 5 and has been masked for this public
* version of the table. The unredacted values are presented in the confidential appendix submitted as
Attachment 1.*

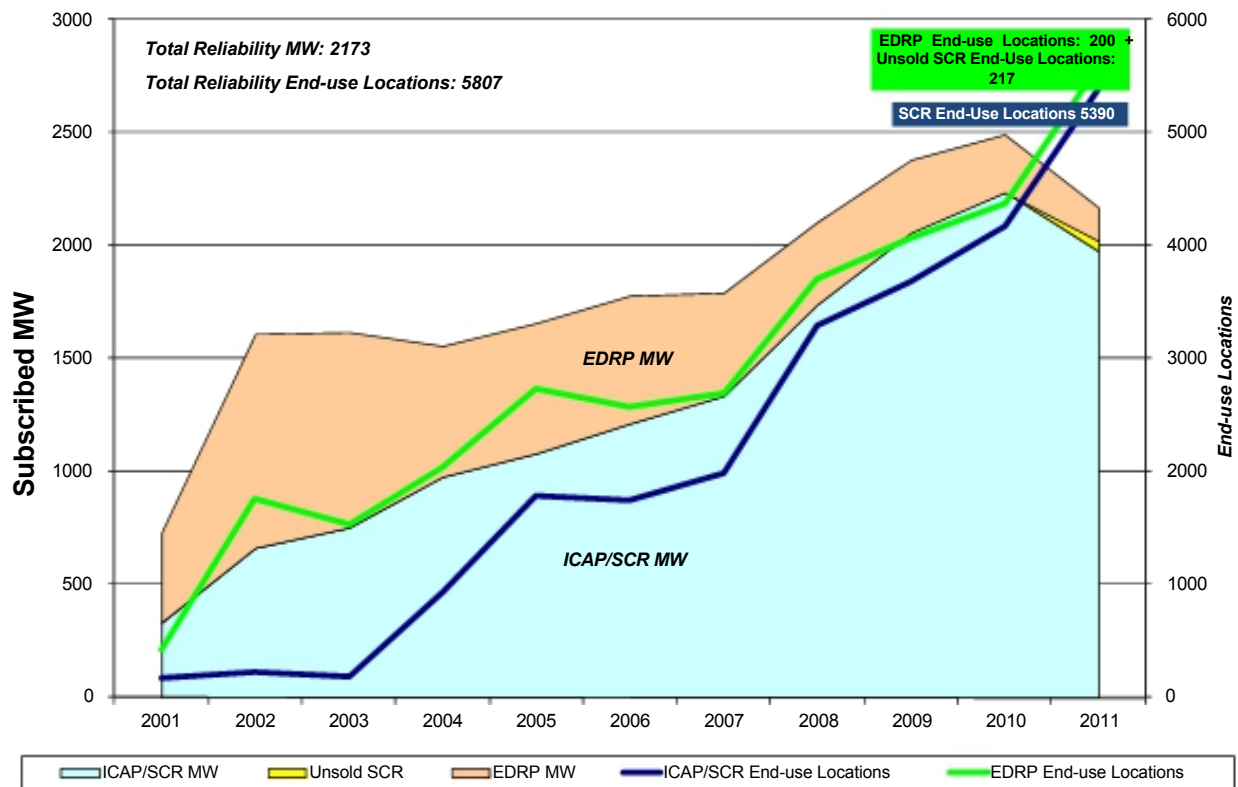
Table 5: ICAP/SCR End-use Locations enrolled in the Targeted Demand Response Program - Zone J

	J1	J2	J3	J4	J5	J6	J7	J8	J9	Total
MW	50.2	25.0	52.6	27.8	28.2	60.9	72.0	89.7	0.0	406.6
End-use Locations	153	184	507	98	270	240	356	555	0	2363

Historical Enrollment in Reliability Programs

Figure 1 plots the growth in the NYISO's reliability-based programs from inception through July 2011. The stacked area plots enrolled MW by program and year. The lines plot the number of end-use locations by program and year. From May 2001 through July 2011, combined enrollment in EDRP and ICAP/SCR has grown from approximately 200 MW to 2,172.9 MW; and the total number of end-use locations has increased from approximately 200 in March 2002 to 5,816. Since participation in EDRP and ICAP/SCR became mutually exclusive, EDRP resources and MW have continued to decrease while ICAP/SCR resources and MW have increased.

Figure 1: Historical Growth in Resources and MW in NYISO Reliability Programs



Changes in Program Enrollment

Table 6 shows the program enrollment changes by number of program IDs enrolled. Program IDs, which are used to represent a resource in NYISO's market systems, may represent individual end-use locations or aggregations of end-use locations. Table 7 shows the program enrollment changes by number of end-use locations.

Table 6: Program Enrollment by Program ID - Changes 2010 to 2011

	2010		2011		MW Change	Percent Change From 2010 to 2011		Subscribed MW per Program ID		
	Count	MW	Count	MW		Program ID Count	Subscribed MW	2010	2011	Percent Change
EDRP	207	257.3	200	148.1	-109.2	-3%	-42%	1.24	0.74	-40%
ICAP/SCR Unsold	8	2.0	217	48.6	46.6	2613%	2349%	0.25	0.22	-10%
ICAP/SCR	205	2238.5	174	1976.2	-262.3	-15%	-12%	10.92	11.36	4%
DADRP	22	331.4	4	37.0	-294.4	-82%	-89%	15.06	9.25	-39%

Table 7: Program Enrollments by End-use Location - Changes 2010 to 2011

	2010		2011		MW Change	Percent Change From 2010 to 2011		Subscribed MW per End-use location		
	Count	MW	Count	MW		End-use Location Count	Subscribed MW	2010	2011	Percent Change
EDRP	207	257.3	200	148.1	-109.2	-3%	-42%	1.24	0.74	-40%
ICAP/SCR Unsold	8	2.0	217	48.6	46.6	2613%	2349%	0.25	0.22	-10%
ICAP/SCR	4171	2238.5	5390	1976.2	-262.3	29%	-12%	0.54	0.37	-32%
DADRP	50	331.4	4	37.0	-294.4	-92%	-89%	6.63	9.25	40%

Table 7, which shows changes in enrollment by end-use location, depicts significant changes in all programs since the year-end report for Summer 2010. Changes in the number of enrolled resources in the ICAP/SCR Unsold category for July 2011 can be attributed to one or more of the following: the change in baseline methodology which could result in a baseline that was higher than in previous years; poor performance factors which would leave some resources with little or no capacity to sell; or offered capacity that did not sell in an ICAP auction. As reported in the June 2011 report, enrollment in ICAP/SCR was expected to decrease due to the change to the baseline methodology that went into effect for the Summer 2011 Capability Period. The impacts of the rule change are discussed in detail below in the section titled “Impact of 2011 Market Rule Changes to ICAP/SCR Enrollment for Summer 2011.”

Enrollment in DADRP has been static for several years and many of the enrolled resources have shown no bidding activity in the market in at least the last two years. The changes in enrollment in DADRP are of two types: resources that formally withdrew from the DADRP program in 2011 (7 resources, 26.4 MW) or resources that have been removed from reporting due to inactivity since 2008 to provide a more accurate representation of the enrolled MW in the

DADRP (20 resources, 268 MW). The DADRP resources that have been removed from reporting are still eligible to make offers in the day-ahead energy market and will be counted in future enrollment reports if their bidding activity changes.

Figures 2 through 4 track enrollment and MW in EDRP, ICAP/SCR and DADRP, respectively, over the period 2001 through 2011. The primary difference between Figures 2 and 3 is the representation of ICAP resources: Figure 2 shows percent change and average subscribed MW by Program ID, while Figure 3 shows percent change and average subscribed MW by end-use location. Figure 2 shows the number of Program IDs, including individually enrolled resources and aggregated resources. Figure 3 provides information on the total number of end-use locations. Seventy-five (75) individually enrolled resources account for 278.5 MW. ICAP/SCR enrollment of end-use locations was initiated in 2004; prior to that period, the enrolled resources shown in Figures 2 and 3 for ICAP/SCR were based on program IDs, also referred to as Aggregation IDs. In addition, during 2001 and 2002, program enrollment was non-exclusive, *i.e.*, an end-use location could register for both EDRP and ICAP/SCR. Beginning in 2003, participation in the EDRP and ICAP/SCR programs became mutually exclusive.⁵

Figure 4 shows that since making EDRP and ICAP/SCR mutually exclusive, the general trend has been for EDRP enrollment and MW to decrease and ICAP/SCR enrollment and MW to increase, as expected, given the monthly reservation payment associated with the ICAP/SCR program.

⁵ Pursuant to the tariff, SCRs may participate in both the EDRP and the ICAP/SCR programs concurrently if the resource has metering to distinguish the MWs of Demand Reduction in the Special Case Resource from the MWs in the Emergency Demand Response Program. The metering requirement supports the program rule that MW cannot be committed both as Unforced Capacity and to the Emergency Demand Response Program.

Figure 2: Demand Response Program Enrollment History by Program ID, 2001 - 2011

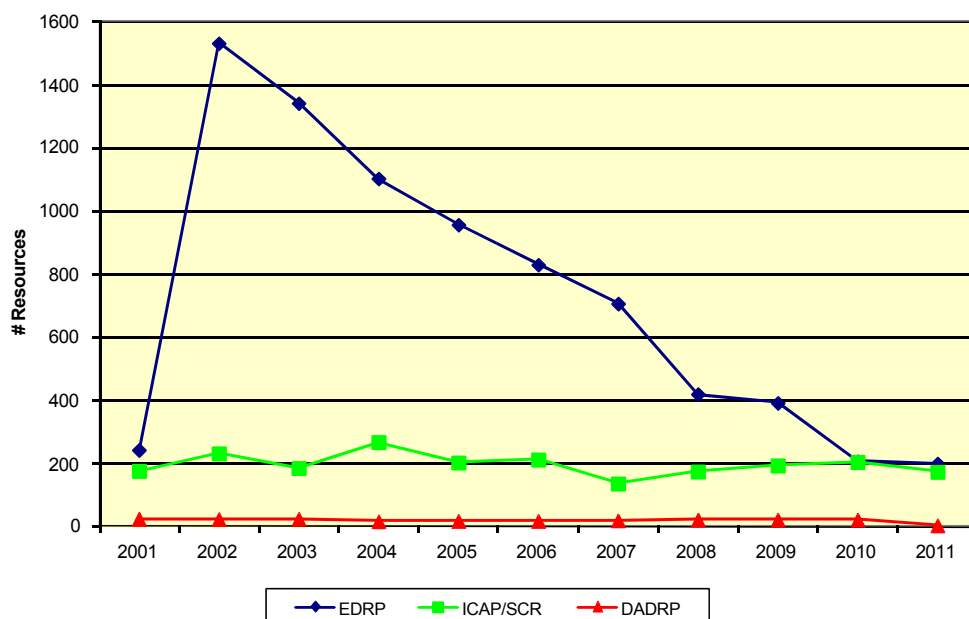


Figure 3: Demand Response Program Enrollment History by Number of End-use locations, 2001 - 2011

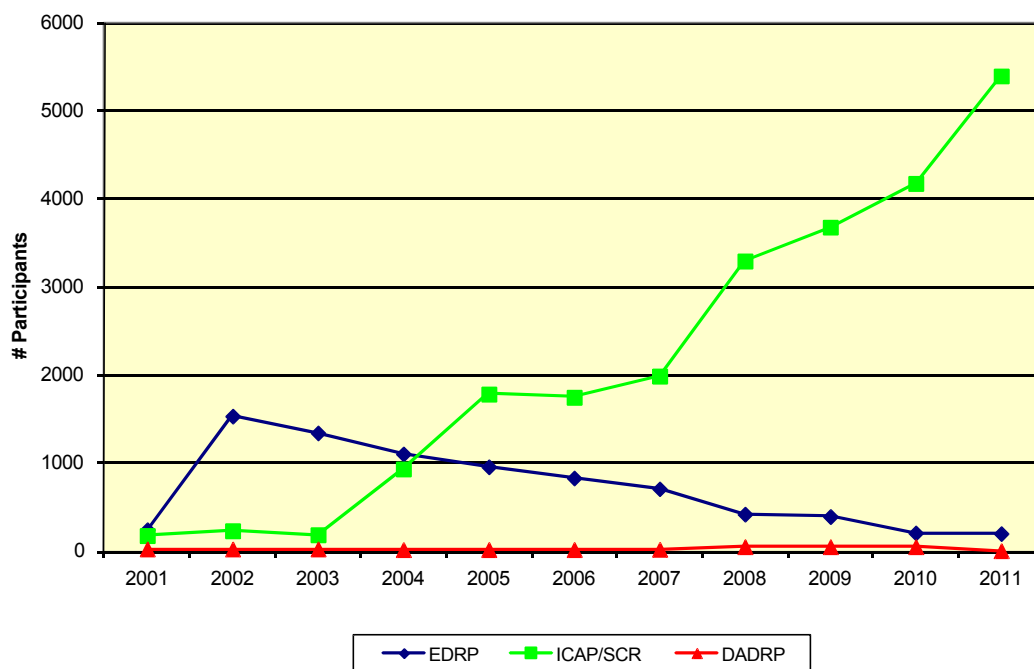
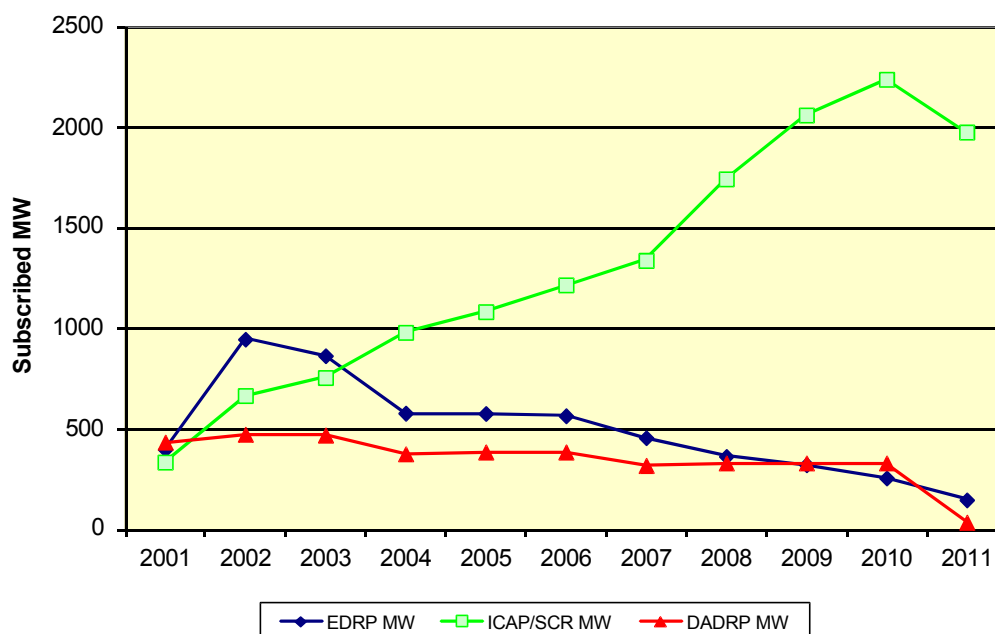


Figure 4: Demand Response Program MW Enrollment History, 2001 - 2011



Impact of 2011 Market Rule Changes to ICAP/SCR Enrollment for Summer 2011

In the mid-year compliance filing on demand response, the NYISO reported on the impact of the 2011 Market Rule Change from APMD to ACL baseline methodology and believes that this change also contributed to the reduction in MW enrolled for July 2011.

To evaluate the impact of the 2011 Market Rule Change from the APMD to the ACL baseline methodology on the amount of enrolled MW the NYISO compared enrollment characteristics of resources that were enrolled in both July 2010 and July 2011. The 3,308 resources analyzed represent 79% of the number of resources enrolled in July 2010 and 61% of the number of resources enrolled in July 2011. The NYISO analyzed two aspects of the data that may have contributed to the reduction:

- **Comparison of APMD and ACL** to determine impact of change to gross resource capacity; and
- **Comparison of Committed Maximum Demand (CMD) for July of each year** to determine whether resources adjusted the amount of capacity (the Declared Value) they could make available.

- Declared Value is calculated by subtracting the CMD from the resource's baseline (APMD or ACL) and is the basis for the enrolled capacity of the resource.

Table 8 below illustrates how a change to the 2011 CMD affects the Declared Value of a resource, depending on whether the 2011 ACL is greater or less than the 2010 APMD. The table includes the end-use location count and MW change for each of the possible combinations in enrollment for July 2011. To illustrate the impact of enrollment changes, Figure 5 provides an example of the combination shown in the first two cells of the first shaded row in Table 8: when the 2011 ACL of a re-enrolled resource is less than the 2010 APMD and the resource raises its CMD, the result is a lower Declared Value for July 2011. The 100 kW reduction from the 2010 APMD to the 2011 ACL plus the 100 kW increase in the 2011 CMD resulted in a 200 kW reduction to the 2011 Declared Value. Keeping the same CMD value for 2011 would result in a 100 kW reduction from the 2010 Declared Value.

Figure 5. Example of Impact from Enrollment Changes

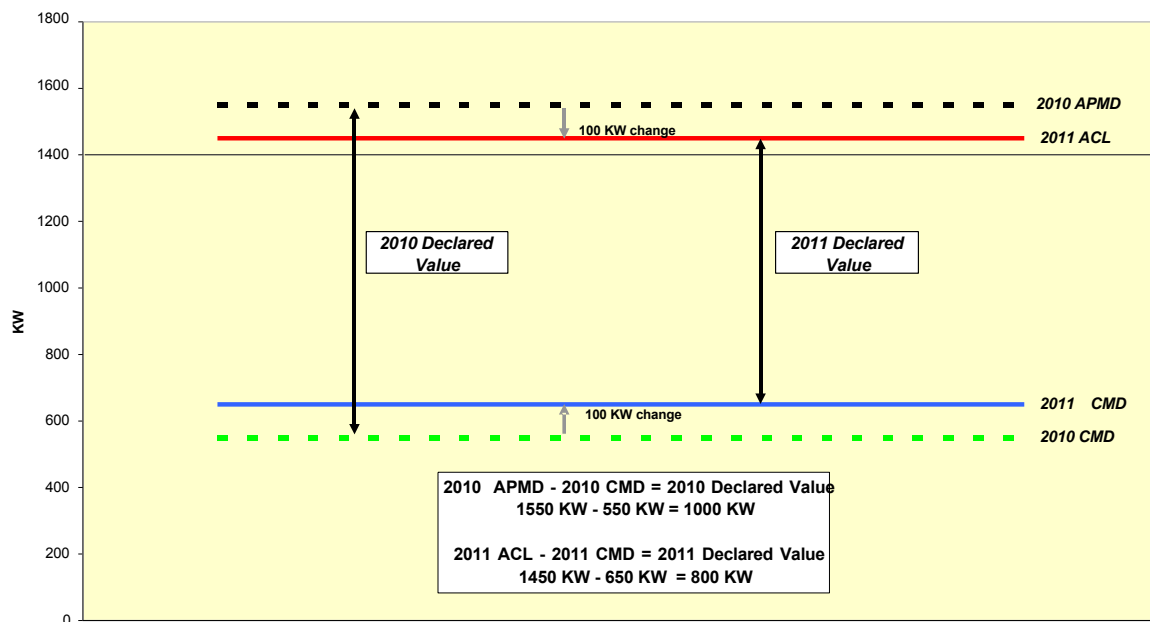


Table 8. July 2011 Enrollment Changes for Re-enrolled Resources

Enrollment Change	Higher CMD	Same CMD as 2010	Lower CMD	Lower CMD	Net Impact from Re-enrolled Resources
2011 ACL ≤ 2010 APMD	Lower Declared Value than 2010	Lower Declared Value than 2010	Same Declared Value as 2010 or Increase over 2010 Declared Value	Lower Declared Value than 2010	
<i>End-use Locations</i>	591	66	454	953	2064
<i>MW</i>	(133)	(13)	32	(255)	(369)
2011 ACL > 2010 APMD	Same Declared Value as 2010 or Lower Declared Value than 2010	Increase over 2010 Declared Value	Increase over 2010 Declared Value		
<i>End-use Locations</i>	937	33	274		1,244
<i>MW</i>	(40)	2	36		(1)
<i>End-use Locations</i>	1,528	99	728	953	3,308
<i>Totals (MW)</i>	(173)	(11)	68	(255)	(370)

There was a 262 MW reduction in ICAP/SCR enrollment from 2010. The net impact of the ACL baseline methodology change for re-enrolled resources was a reduction in Declared Value of 370 MW, which exceeds the net reduction in enrolled MW for July as shown in Table 7 above. The 29% increase in enrolled end-use locations (e.g., new resources) mitigated the reduction from 2010.

The first column of Table 8 shows that, for the 2,064 resources where the ACL method resulted in a baseline that was less than or equal to the APMD method, the change to Declared Value MW was a reduction of 369 MW. The net reduction in Declared Value MW from the 1,244 resources that realized an ACL greater than their July 2010 APMD, was 1 MW.

The second through fifth columns of Table 8 provide detail on the effect of the change to the Committed Maximum Demand on the quantity of enrolled MW, and the number of resources that made the change. Resources that maintained the same Committed Maximum Demand as last year show a net reduction of 11 MW (column 3, last row). Resources that lowered their

Committed Maximum Demand⁶ show a net reduction of 187 MW enrolled (columns 4 + 5, last row).

Analysis of ICAP/SCR Strike Prices

Beginning in 2003, resources in the ICAP/SCR program were required to indicate, at the time of enrollment, a curtailment strike price, between \$0-\$500/MWh, which would be used by the NYISO to determine which resources to call for curtailments when all resources in a given Zone or Zones are not needed to restore system security to its equilibrium state.

To characterize how resources responded to this requirement, strike price curves were developed for all resources for 2011. The curves map out the percentage of enrolled MW at a given strike price. Figure 5 illustrates the strike price curves for 2003 to 2011, covering the period of time that the program provision has been in place. The steeper slope for the strike price curve overall indicates that strike prices are clustered close to the offer ceiling of \$500/MWh. It is evident that resources, over time, have increased the number of higher strike prices. Figure 6 is a detailed view of the strike price curves for the past four years, 2007 through 2011, and displays a limited range where the price curve levels off to the offer ceiling. The strike price curves for 2010 and 2011 have the same shape.

⁶ One reason a resource may have lowered its Contract Minimum Demand is in recognition of a change to its SCR baseline that resulted from the 2011 Market Rule Changes.

Figure 6: 2003 - 2011 ICAP/SCR Curtailment Bid Curves

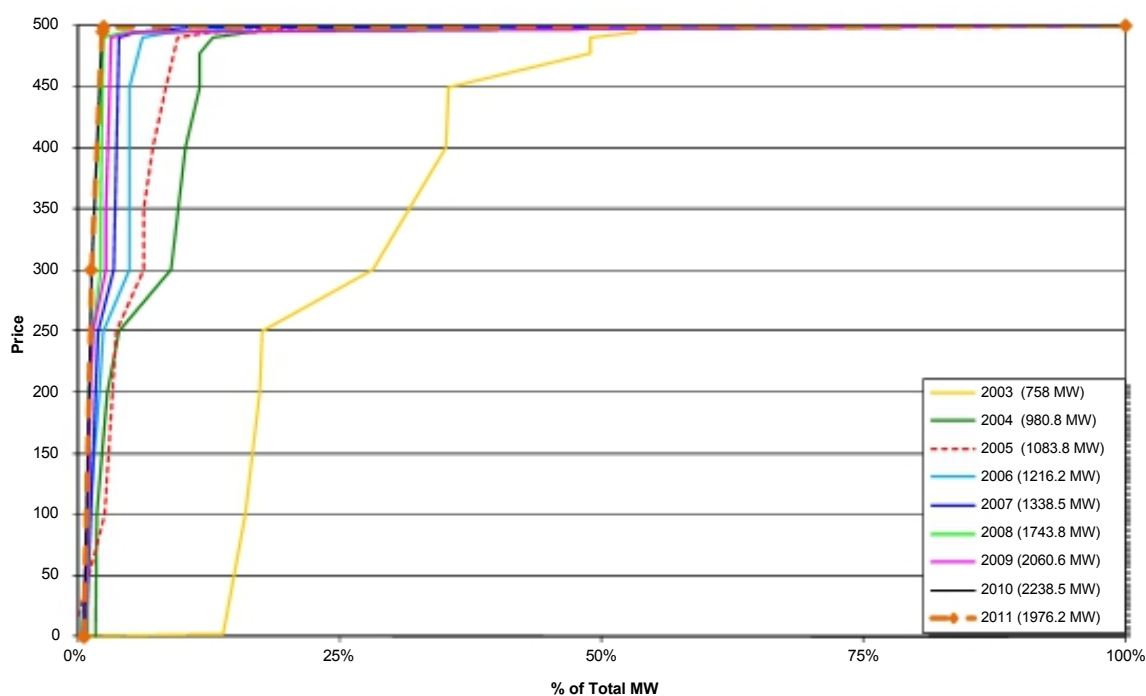
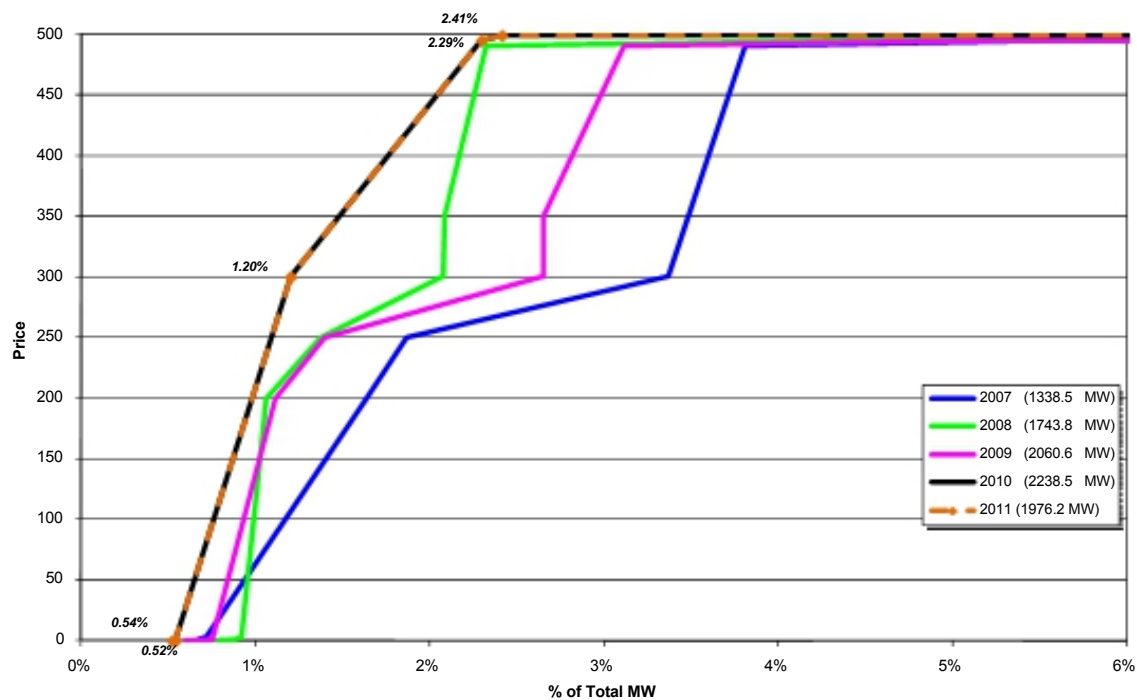


Figure 7: 2007 - 2011 ICAP/SCR Curtailment Bid Curve Detail



2011 Event Performance for Emergency Demand Response Program and ICAP/Special Case Resources

In 2011, the NYISO deployed EDRP and SCR resources on two occasions. There were two deployments of the ICAP/SCR and EDRP programs during July 2011. The NYISO deployments of the ICAP/SCR and EDRP programs occurred on July 21, 2011 and July 22, 2011. The 2011 deployments were as follows:

July 21:

SCR and EDRP resources were deployed in Zones G, H, I, J, and K from 1 p.m. to 6 p.m. (HB 13 through HB 17) for transmission security operations, the requirement to restore system power flows to within normal operating limits. Scarcity pricing was not applied because a reserve shortage was not identified.⁷

July 22:

SCR and EDRP resources were deployed in Zone J from 12 p.m. to 6 p.m. (HB 12 through HB 17) and in zones A, B, C, E, F, G, H, I, and K from 1 p.m. to 6 p.m. (HB 13 through HB 17) SCR and EDRP resources in Zones G through K were deployed for transmission security operations. SCR and EDRP resources in Zones A, B, C, E, and F were deployed to meet statewide capacity requirements in response to import transaction curtailments and nearly 1600 MW of load forecast error; about 90% of the load forecast error was due to weather forecast error. Scarcity pricing was applied for certain intervals.

The following intervals, based on end timestamps, were subject to EDRP/SCR Scarcity Pricing Rule A (impacting NYCA): 13:05 - 13:10, 13:17 - 15:00, and 16:05 - 17:05.

The following intervals, based on end timestamps, were subject to EDRP/SCR Scarcity Pricing Rule B (impacting the East): 13:15, 15:05 - 16:00, and 17:25.

⁷ 2011 demand response event information presented by Emilie Nelson to Market Issues Working Group, August 29, 2011: http://www.nyiso.com/public/webdocs/committees/bic_miwg/meeting_materials/2011-08-29/MIWG_ScarcityPricing_July2011_Overview_Final.pdf

NYISO Demand Response Program Events

Table 9 provides a summary of average hourly response by SCR and EDRP resources during the two demand response events on July 21, 2011 and July 22, 2011. Detailed hourly event performance by program is provided in the sections below.

Table 9. Summary of July 2011 Demand Response Event Performance

Average Hourly Performance	Zones	SCR (MW)	EDRP (MW)	Total	Enrolled MW	Average Hourly Performance %
July 21, 2011	G, H, I, J, K	658.9	7.6	666.5	823.5	80.9%
July 22, 2011	A, B, C, E, F, G, H, I, J, K	1396.4	21.1	1417.5	1697.4	83.5%

ICAP/SCR Capacity Performance

Tables 10 and 11 contain performance figures based on the ICAP/SCR reporting rules contained in the NYISO's Installed Capacity Manual. ICAP/SCR performance is determined by comparing the actual hourly interval metered energy with the Average Coincident Load (ACL):

$$RED_MW_{gn} = ACL_{gm} - METER_MW_{gn}$$

where:

- RED_MW_{gn} is the Installed Capacity Equivalent performance that Resource g supplies during hour n of an SCR event;
- ACL_{gm} is the Average Coincident Load for Resource g applicable to month m , using data submitted in its Special Case Resource Certification; and
- $METER_MW_{gn}$ is the metered hourly-integrated energy for Resource g in hour n of an SCR event.

Performance using this measure compares actual reduction with the Installed Capacity Equivalent (ICAP) of the resource's reduction capability sold. Individual resource performance factors used to determine the kW that can be sold in the next like Capability Period (*i.e.*, Summer or Winter) are based on the four highest contiguous hours of reduction during each event as well as performance during mandatory tests.

Table 10: SCR MW Performance Based on ICAP Measures - July 21, 2011

21-Jul	MWh								
Zone	HB 13	HB 14	HB 15	HB 16	HB 17		Average Hourly MW	ICAP MW	% Performance of ICAP All Event Hours
G	58.2	63.1	65.8	66.4	64.3		63.6	69.6	91.3%
H	9.8	10.0	10.2	10.3	10.4		10.1	10.1	100.5%
I	20.7	26.1	27.8	29.1	30.2		26.8	35.3	76.0%
J	402.6	429.0	438.9	449.1	465.7		437.1	464.1	94.2%
K	109.7	117.5	121.9	127.5	130.2		121.3	152.0	79.8%
Total	601.1	645.8	664.6	682.3	700.7		658.9	731.1	90.1%

Table 11: SCR MW Performance Based on ICAP Measures - July 22, 2011

22-Jul	MWh									
Zone	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17		Average Hourly MW	ICAP MW	% Performance of ICAP All Event Hours
A		305.1	326.6	341.1	343.6	347.5		332.8	334.4	99.5%
B		96.5	102.4	105.4	107.5	109.7		104.3	120.5	86.5%
C		110.9	128.8	135.6	140.1	140.5		131.2	136.9	95.8%
E		39.1	49.6	52.7	54.5	55.3		50.2	45.6	110.2%
F		116.2	127.0	130.5	135.4	133.2		128.4	137.7	93.3%
G		61.3	66.1	69.0	70.0	69.8		67.3	67.2	100.1%
H		8.7	8.8	8.8	8.9	9.0		8.8	10.1	87.7%
I		26.3	27.1	28.0	28.9	32.0		28.5	36.9	77.2%
J	367.3	393.8	437.9	456.2	472.0	499.2		437.7	464.3	94.3%
K		96.0	102.8	107.9	113.1	116.1		107.2	152.0	70.5%
Total	367.3	1253.8	1377.0	1435.1	1473.9	1512.4		1396.4	1505.4	92.8%

NYISO Event Energy Performance and Payments

In addition to compensation for committing to reduce Capacity, resources in ICAP/SCR are also paid for their actual energy reduction during a called event. To compute energy payments, performance is determined using a Customer Baseline Load (CBL) computed using recent historical data to determine what the resource's energy consumption would have been if the Special Case Resource had not reduced its load. This computation method is the same

method used in the EDRP program to measure load reduction eligible for energy payment.⁸ For settlement of the energy payment, the amount of load reduction is equal to the difference between the hourly CBL and hourly interval meter readings..

Tables 12 and 13 present a energy reduction data for ICAP/SCR resources that performed in the NYISO's ICAP/SCR events. Since the ICAP/SCR ACL values are determined for the prior like Capability Period and the CBL is determined from load data that ranges from two weeks to 30 days prior to the event, differences in performance can be expected. Contributing to the difference between the capacity performance reported above and the energy performance reported (in Tables 12 and 13) is the fact that not all Responsible Interface Parties submitted CBL energy performance data. The NYISO has observed that some RIPs only submit CBL data for larger resources, particularly in Zone J where energy prices are typically higher than the rest of the NYCA. Tables 14 and 15 provide details on the energy payments made to SCRs for the July 21 and July 22 events, respectively.

Table 12: SCR Energy Performance based on CBL - July 21, 2011

Hourly CBL Performance for SCRs Reporting Energy Performance									
21-Jul	MWh								
Zone	HB 13	HB 14	HB 15	HB 16	HB 17		Average Hourly MW	ICAP MW	CBL Performance as % of ICAP
G	42.1	46.0	45.2	42.1	37.0		42.5	43.9	96.9%
H	9.0	9.2	9.2	9.1	8.6		9.0	8.8	102.2%
I	25.7	31.5	33.8	34.5	30.7		31.2	25.5	122.4%
J	230.6	251.8	251.5	243.0	217.7		238.9	263.6	90.6%
K	82.2	89.6	89.2	86.0	77.9		85.0	115.5	73.6%
Total	389.5	428.0	429.0	414.8	371.8		406.6	457.2	88.9%

⁸ EDRP Manual, section 5.2:

http://www.nyiso.com/public/webdocs/products/demand_response/emergency_demand_response/edrp_mnl.pdf

Table 13: SCR Energy Performance based on CBL - July 22, 2011

Hourly CBL Performance for SCRs Reporting Energy Performance										
22-Jul	MWh	MWh								
Zone	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17		Average Hourly MW	ICAP MW	CBL Performance as % of ICAP
A		293.8	309.7	314.9	307.1	300.6		305.2	305.3	100.0%
B		65.4	70.3	68.1	61.7	54.7		64.0	87.0	73.6%
C		91.3	100.2	95.5	90.4	77.6		91.0	109.2	83.3%
E		28.7	37.1	35.7	33.5	29.7		32.9	38.1	86.5%
F		114.9	127.5	125.6	125.5	116.7		122.0	121.5	100.5%
G		47.2	52.1	49.8	50.9	56.5		51.3	50.5	101.7%
H		8.0	8.0	8.1	8.0	7.5		7.9	7.9	100.0%
I		31.7	33.3	34.6	35.6	34.2		33.9	24.7	136.9%
J	212.8	240.6	273.6	282.8	279.6	257.6		257.8	278.5	92.6%
K		76.0	80.9	81.1	78.5	73.0		77.9	106.6	73.1%
Total	212.8	997.8	1092.6	1096.2	1070.8	1008.0		1044.1	1129.3	92.5%

Table 14: SCR Energy Payments - July 21, 2011

21-Jul									
Zone	HB 13	HB 14	HB 15	HB 16	HB 17		Sum of LBMP Payments	Sum of BPCG Payments	Total Payments
G	\$ 4,252	\$ 6,381	\$ 4,711	\$ 4,873	\$ 5,409		\$ 5,627	\$ 80,577	\$ 06,204
H	\$ 1,030	\$ 1,381	\$ 1,093	\$ 1,220	\$ 1,421		\$ 6,145	\$ 16,446	\$ 22,591
I	\$ 2,965	\$ 4,763	\$ 4,068	\$ 4,672	\$ 5,150		\$ 1,619	\$ 56,501	\$ 78,120
J	\$ 4,513	\$ 5,491	\$ 0,151	\$ 2,411	\$ 6,057		\$ 158,623	\$ 38,603	\$ 97,225
K	\$ 0,191	\$ 4,733	\$ 0,816	\$ 1,839	\$ 2,855		\$ 0,434	\$ 52,009	\$ 12,443
Total	\$ 2,951	\$ 2,749	\$ 0,840	\$ 5,015	\$ 0,893		\$ 272,447	\$ 44,136	\$,016,583

Table 15: SCR Energy Payments - July 22, 2011

22-Jul										
Zone		HB 13	HB 14	HB 15	HB 16	HB 17		Sum of LBMP Payments	Sum of BPCG Payments	Total Payments
A		\$ 15,424	\$ 30,507	\$ 26,898	\$ 30,345	\$ 33,495		\$ 11,752	\$ 436,687	\$ 48,449
B		\$ 27,370	\$ 31,413	\$ 10,039	\$ 27,330	\$ 1,461		\$ 9,622	\$ 56,620	\$ 56,242
C		\$ 29,116	\$ 45,891	\$ 10,166	\$ 41,073	\$ 1,439		\$ 145,685	\$ 81,578	\$ 27,263
E		\$ 12,666	\$ 17,405	\$ 1,082	\$ 15,672	\$ 1,835		\$ 4,660	\$ 26,004	\$ 80,664
F		\$ 55,432	\$ 61,222	\$ 62,217	\$ 60,434	\$ 19,108		\$ 258,413	\$ 34,712	\$ 93,126
G		\$ 23,693	\$ 25,913	\$ 25,904	\$ 25,593	\$ 11,473		\$ 113,577	\$ 15,705	\$ 28,283
H		\$ 1,061	\$ 1,234	\$ 1,660	\$ 1,143	\$ 1,602		\$ 8,700	\$ 1,148	\$ 19,849
I		\$ 15,967	\$ 7,684	\$ 20,356	\$ 18,333	\$ 1,328		\$ 9,668	\$ 1,031	\$ 84,699
J	\$ 16,921	\$ 21,486	\$ 44,744	\$ 63,110	\$ 55,291	\$ 63,034		\$ 764,586	\$ 1,913	\$ 73,499
K		\$ 40,068	\$ 49,258	\$ 53,539	\$ 45,847	\$ 28,289		\$ 217,002	\$ 22,239	\$ 94,763
Total	\$ 16,921	\$ 55,283	\$ 28,273	\$ 82,447	\$ 20,623	\$ 84,065		\$ 2,187,612	\$ 19,225	\$,706,837

Tables 16 and 17 report the July 2011 event energy reductions of EDRP resources computed using the CBL method. Performance of EDRP resources during both events varied greatly by zone, with overall performance on both days near 10%. It is important to note that the enrolled MW values shown below that are used to compute performance include unsold SCRs as reported in Table 3.

Table 16: Energy Reductions of EDRP Resources - July 21, 2011

21-Jul	MWh								
Zone	HB 13	HB 14	HB 15	HB 16	HB 17		Average Hourly MW	Enrolled MW	% Performance of Enrolled MW
G	0.2	0.2	0.1	0.0	0.0		0.1	17.3	1%
H	0.0	0.0	0.1	0.2	0.2		0.1	1.8	7%
I	0.2	0.3	0.3	0.3	0.2		0.3	3.9	7%
J	5.0	5.7	6.8	7.0	5.5		6.0	67.5	9%
K	1.1	1.5	1.2	1.2	0.6		1.1	1.9	60%
Total	6.5	7.8	8.5	8.8	6.6		7.6	92.4	8%

Table 17: Energy Reductions of EDRP Resources - July 22, 2011

22-Jul	MWh									
Zone	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17		Average Hourly MW	Enrolled (MW)	% Performance of Enrolled (MW)
A		0.3	0.3	0.4	0.7	0.7		0.5	52.8	0.9%
B		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0%
C		1.5	2.0	1.6	1.4	1.4		1.6	15.1	10.5%
E		3.6	5.5	4.4	3.1	1.6		3.6	26.1	14.0%
F		0.6	0.7	0.7	0.5	0.3		0.5	5.5	9.9%
G		0.2	0.2	0.1	0.0			0.1	17.3	0.8%
H		0.0	0.1	0.1	0.0	0.0		0.0	1.8	2.7%
I		0.5	0.6	0.5	0.6	0.5		0.5	3.9	13.8%
J	12.6	12.4	13.3	13.6	13.7	12.3		13.0	67.5	19.2%
K		1.0	1.1	1.0	1.1	1.2		1.1	1.9	58.0%
Total	12.6	20.1	23.7	22.6	21.2	18.0		21.1	191.9	11.0%

Tables 18 and 19 report the July 2011 event energy payments of EDRP resources.

Table 18: Energy Payments to EDRP Resources - July 21, 2011

21-Jul							
Zone	HB 13	HB 14	HB 15	HB 16	HB 17		Total Energy Payments
G	\$ 99	\$ 89	\$ 70	\$ 20	\$ -		\$ 277
H	\$ -	\$ 18	\$ 68	\$ 112	\$ 109		\$ 307
I	\$ 115	\$ 170	\$ 153	\$ 132	\$ 87		\$ 657
J	\$ 2,499	\$ 2,872	\$ 3,375	\$ 3,521	\$ 2,766		\$ 15,032
K	\$ 555	\$ 772	\$ 596	\$ 590	\$ 316		\$ 2,830
Total	\$ 3,267	\$ 3,922	\$ 4,262	\$ 4,376	\$ 3,278		\$ 19,104

Table 19: Energy Payments to EDRP Resources - July 22, 2011

22-Jul								
Zone	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17		Total Energy Payments
A		\$ 151	\$ 139	\$ 220	\$ 356	\$ 346		\$ 1,213
B		\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
C		\$ 759	\$ 1,001	\$ 822	\$ 704	\$ 684		\$ 3,970
E		\$ 1,820	\$ 2,745	\$ 2,193	\$ 1,540	\$ 810		\$ 9,109
F		\$ 278	\$ 340	\$ 357	\$ 265	\$ 125		\$ 1,365
G		\$ 82	\$ 88	\$ 78	\$ 21	\$ -		\$ 270
H		\$ 21	\$ 41	\$ 32	\$ 22	\$ 11		\$ 127
I		\$ 249	\$ 296	\$ 323	\$ 306	\$ 246		\$ 1,419
J	\$ 6,897	\$ 6,251	\$ 7,028	\$ 7,858	\$ 7,595	\$ 6,153		\$ 41,781
K		\$ 522	\$ 700	\$ 682	\$ 637	\$ 622		\$ 3,162
Total	\$ 6,897	\$ 10,132	\$ 12,378	\$ 12,566	\$ 11,446	\$ 8,997		\$ 62,415

Table 20 provides a summary of energy payments for by event and program during NYISO demand response program events in July 2011. Table 21 shows the hourly detail of the energy payments by program and event.

Table 20: Summary of Energy Payments for 2011 Events

Energy Payment Summary	Zones	SCR	EDRP	Total
July 21, 2011	G, H, I J, K	\$ 1,016,583	\$ 19,104	\$ 1,035,687
July 22, 2011	A, B, C, E, F, G, H, I, J, K	\$ 2,706,837	\$ 62,415	\$ 2,769,252
	Totals	\$ 3,723,420	\$ 81,519	\$ 3,804,939

Table 21: Hourly Detail of Energy Payments for 2011 Events

Energy Payment Summary	Zones	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17	BPCG Payments to SCRs	Total Payments
July 21, 2011	G, H, I J, K		\$ 46,218	\$ 66,670	\$ 55,102	\$ 59,390	\$ 64,171	\$ 744,136	\$ 1,035,687
July 22, 2011	A, B, C, E, F, G, H, I, J, K	\$ 123,818	\$ 465,415	\$ 540,650	\$ 395,013	\$ 532,069	\$ 193,062	\$ 519,225	\$ 2,769,252
	Totals	\$ 123,818	\$ 511,633	\$ 607,321	\$ 450,115	\$ 591,459	\$ 257,233	\$ 1,263,361	\$ 3,804,939

Combined Hourly Event Performance

SCR resources provided approximately 98% of the average hourly MWh reductions (658.9 MW) during both demand response events in July 2011 (Tables 22 and 23). Response by EDRP resources improved on July 22 when additional zones were deployed. Table 24 summarized hourly event performance by event date.

Table 22: Hourly Event Performance Detail
NYISO Demand Response Event - July 21, 2011

Hourly Performance July 21, 2011	Zones	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17	Average Hourly	Enrolled MW	Average Hourly Performance %
SCR	G, H, I J, K		1881.5	2054.4	2130.8	2186.2	2237.7	658.9	731.1	90.1%
EDRP	G, H, I J, K		6.5	7.8	8.5	8.8	6.6	7.6	92.4	8.3%
Totals			1888.0	2062.2	2139.3	2194.9	2244.2	666.5	823.5	80.9%

Table 23: Hourly Event Performance Detail
NYISO Demand Response Event - July 22, 2011

Hourly Performance July 22, 2011	Zones	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17	Average Hourly	Enrolled MW	Average Hourly Performance %
SCR	A, B, C, E, F, G, H, I, J, K	367.3	1253.8	1377.0	1435.1	1473.9	1512.4	1396.4	1505.4	92.8%
EDRP	A, B, C, E, F, G, H, I, J, K	12.6	20.1	23.7	22.6	21.2	18.0	21.1	191.9	11.0%
Totals		379.8	1273.9	1400.7	1457.7	1495.1	1530.4	1417.4	1697.4	83.5%

Table 24: Combined Hourly Event Performance Detail

Hourly Performance	Zones	HB 12	HB 13	HB 14	HB 15	HB 16	HB 17	Average Hourly	Enrolled MW	Average Hourly Performance %
July 21, 2011	G, H, I, J, K		607.6	653.6	673.2	691.1	707.2	666.5	823.5	80.9%
July 22, 2011	A, B, C, E, F, G, H, I, J, K	379.8	1273.9	1400.7	1457.7	1495.1	1530.4	1417.4	1697.4	83.5%

Table 25 shows the Summer 2011 peak hour performance by demand response program SCR and EDRP Resources. Performance is calculated according to the performance methods for each program. The peak hour occurred on July 22, 2011 in hour beginning 15.

Table 25: Peak Hour Response by Demand Response Program

Peak Hour Performance 7/22/11 HB 15	Zones	SCR (MW)	EDRP (MW)	Total
July 22, 2011	A, B, C, E, F, G, H, I, J, K	1435.1	22.6	1457.7

Day-Ahead Demand Response Program

The DADRP program provides demand resources with an opportunity to offer their load curtailment capability into the Day-Ahead energy market as energy supply resources. Resources submit offers by 5:00 a.m., specifying the hours and amount of load curtailment they are offering for the next day, and the price at which they are willing to curtail. Prior to November 1, 2004, the offer price had to be \$50/MWh or higher. As of November 1, 2004, the offer floor price for DADRP has been set at \$75/MWh. Offers are structured like those of generation resources, so DADRP program resources may specify minimum and maximum run times and effectively submit a block of hours on an all-or-nothing basis. This structure makes resources eligible for Bid Production Cost Guarantee payments that make up for any difference between the market price during that block of hours and their block offer price. Load scheduled in the DAM is obligated to curtail the next day. Failure to curtail results in the imposition of a penalty equal to the product of the MW curtailment shortfall and the greater of the corresponding Day-Ahead and Real-Time market price.

During the analysis period of September 2010 through August 2011, only one resource made offers for a period on a single day and the resource was scheduled for only two of the hours it offered its reduction and for fewer than three MW in each of those two hours. Given the minimal activity in DADRP during the analysis period, there is nothing on DADRP to report for this period.

Update on 2011 Demand Response Initiatives

This section provides an update on the status of the following initiatives that the NYISO has been working on with its stakeholders to improve the administration of its demand response programs and to address regulatory directives to facilitate market participation:

- Order 745 Compliance Filing
- Market Rules for Aggregations of Small Demand Resources in the Ancillary Services Markets
- Procedures for Direct Communication for DSASP
- Aggregations of Demand Side Resources in the Ancillary Services Markets and the availability of Direct Communication
- Program Design for Demand Response Participation in the Real-Time Energy Market
- Continued Development of the Demand Response Information System (DRIS)

Order 745 Compliance Filing

On August 19, 2011, the NYISO submitted its compliance filing to meet the requirements of Order 745, Demand Response Compensation in Organized Wholesale Energy Markets. Prior to its filing, the NYISO presented the details of how it proposed to implement the requirements in its presentation to a joint session of the Price-Responsive Load Working Group (PRLWG) and Market Issues Working Group (MIWG) on August 9, 2011 titled NYISO's Compliance Filing to Order 745: Demand Response Compensation in Organized Wholesale Energy Markets⁹.

⁹ Demand Response Compensation in Organized Wholesale Energy Markets

http://www.nyiso.com/public/webdocs/committees/bic_prlwg/meeting_materials/2011-08-09/Compliance_Filing_on_Order_745.pdf

Market Rules for Aggregations of Small Demand Resources in the Ancillary Services Market

Because Direct Communication for DSASP is expected to streamline program participation in DSASP and make it feasible for aggregations of small demand resources to participate in the ancillary services market, the NYISO focused its efforts in 2011 on developing the technical specifications for direct communications for DSASP, with a commitment to stakeholders to begin discussions about market rule changes for aggregations of small demand resources during the first quarter of 2012.

Technical Specifications and Procedures for Direct Communication for DSASP

The NYISO delivered its technical specification to stakeholders through a series of presentations at stakeholder meetings in November and December: Price-Responsive Load Working Group¹⁰ (11/28/11), the Market Issues Working Group (12/1/11), Business Issues Committee (12/14/11), Operations Committee (12/15/11) and Computer Data Advisory Subcommittee (12/8/11). On January 9, 2012, the presentation was made to the System Operations Advisory Subcommittee. At each stakeholder presentation, stakeholders were informed of the procedures for obtaining the technical specification requirements that were not covered in the presentation because they had been identified as Critical Energy Infrastructure Information.

Demand Response in the Real-Time Energy Market

The NYISO completed an architectural design specification at the conclusion of 2011 to understand which applications may be impacted by the implementation of Demand Response in the Real-Time Energy Market. As the market design and market rules are developed, the architectural design specification will be updated.

¹⁰ DSASP Direct Communications Technical Specification

http://www.nyiso.com/public/webdocs/committees/bic_prlwg/meeting_materials/2011-11-28/DSASP_Stakeholder_Presentation.pdf

Continued Development of the Demand Response Information System (DRIS)

In the second half of 2011, the NYISO had two additional deployments to increase the functionality of the Demand Response Information System. The deployments included the following functionality described under each deployment.

July 2011

- Minor improvements to existing functionality that was not market-facing.

September 2011

- Implementation to support the tariff changes for the SCR baseline from APMD to ACL:
 - Changes to the data structure, import procedures and calculation of the Average Coincident Load (ACL);
 - Supporting functionality for Provisional ACL;
 - Provisions to allow adjustments to metered load for demand reductions in a Transmission Owner's demand reduction program during hours that are part of the ACL calculation;
 - Addition of an aggregation performance factor which permits over-performance of one SCR in an SCR Aggregation to compensate for under-performance of another SCR in the same SCR Aggregation in the same hour;
 - Reporting of in-period verification data; and
 - RIP deficiency calculations.

Demand Response Initiatives for 2012

This section provides an overview of the projects that the NYISO has planned for its demand response programs for 2012.

Implementation of NYISO's Order 745 Compliance Filing for a Monthly Net Benefits Test

The NYISO is anticipating an order on its Order 745 compliance filing and has identified the changes to systems and procedures that will need to be made to comply with its filing. Once the NYISO receives its order, the NYISO will assess whether changes to the current implementation plan are required.

Order 745 Compliance Filing on the Feasibility of a Dynamic Net Benefit Tests

As directed in Order 745, the NYISO will make a compliance filing in September 2012 to report on the results of a study to determine the feasibility of integrating a dynamic version of the Net Benefits Test on a real-time basis.

Market Rules for Aggregations of Small Demand Resources in the Ancillary Services Market

With the completion of the technical specifications for Direct Communications for DSASP, the NYISO has begun work on developing the proposed market rules and procedures for integrating aggregations of small demand resources into its ancillary service markets through the Demand Side Ancillary Services Program (DSASP). Presentations to stakeholders are expected to begin in February and the NYISO anticipates filing proposed tariff changes in the spring of 2012.

Demand Response in the Real-Time Energy Market

The NYISO will begin work with its stakeholders in mid-2012 to complete a market design for demand response in the real-time energy market by the end of 2012.

Continued Development of the Demand Response Information System (DRIS)

The NYISO has one planned deployment in 2012 for DRIS to further improve the administration of its demand response programs. The planned deployment for June 2012 will integrate demand response event creation with communication services from a third-party provider to improve event notification. This deployment will be used by NYISO Operators to

deploy demand response resources and provide a way for market participants to respond with an estimate of their anticipated capability directly into DRIS. A second deployment for late 2012 may be added to address any market rule or procedural changes.