



Part 2 – Updates to Existing DRIS Functionality

Demand Response Information System (DRIS) Training for September 2011 Deployment

Stacia Wilcox
New York Independent System Operator

Tuesday, August 30, 2011 10:00 am – 2:00 pm

Wednesday, September 7, 2011 10:00 am – 2:00 pm

Rensselaer, NY

Training Topics

- ◆ Part 1: Introduction to DRIS
 - *DRIS User Requirements*
 - *User Privileges*
 - *Access to DRIS*
 - *Additional Tools*
- ◆ Part 2: Updates to Existing DRIS Functionality
- ◆ Part 3: Background of SCR Baseline Implementation
- ◆ Part 4: Resource ACL
 - *SCR Load Zone Peak Hours*
 - *TO Add-back Hours*
 - *Enrollment with ACL*
 - *Summer 2011 ACL Verification*
- ◆ Part 5: Provisional ACL
 - *Enrollment with Provisional ACL*
 - *Provisional ACL Verification*
 - *Provisional ACL Deficiency*
- ◆ Part 6: RIP Deficiency
 - *Timeline*
 - *Calculation*
- ◆ Part 7: Aggregation PF
 - *Timeline*
 - *MP PF and SCR Program PF*
- ◆ Part 8: Deployment
 - *Additional Training Sessions*
 - *Deployment Activities*

Updates to Existing Functionality

- ◆ Ability to View “Reason for Pending Request” of a Resource Enrollment Request
 - *DRIS Resource Enrollment Request Screen*

- ◆ Ability to View Resource Enrollment “Approval Date”
 - *DRIS Resource Capability Period Screen*

- ◆ View Transmission Owner Field
 - *DRIS Resource Monthly Details Screen*

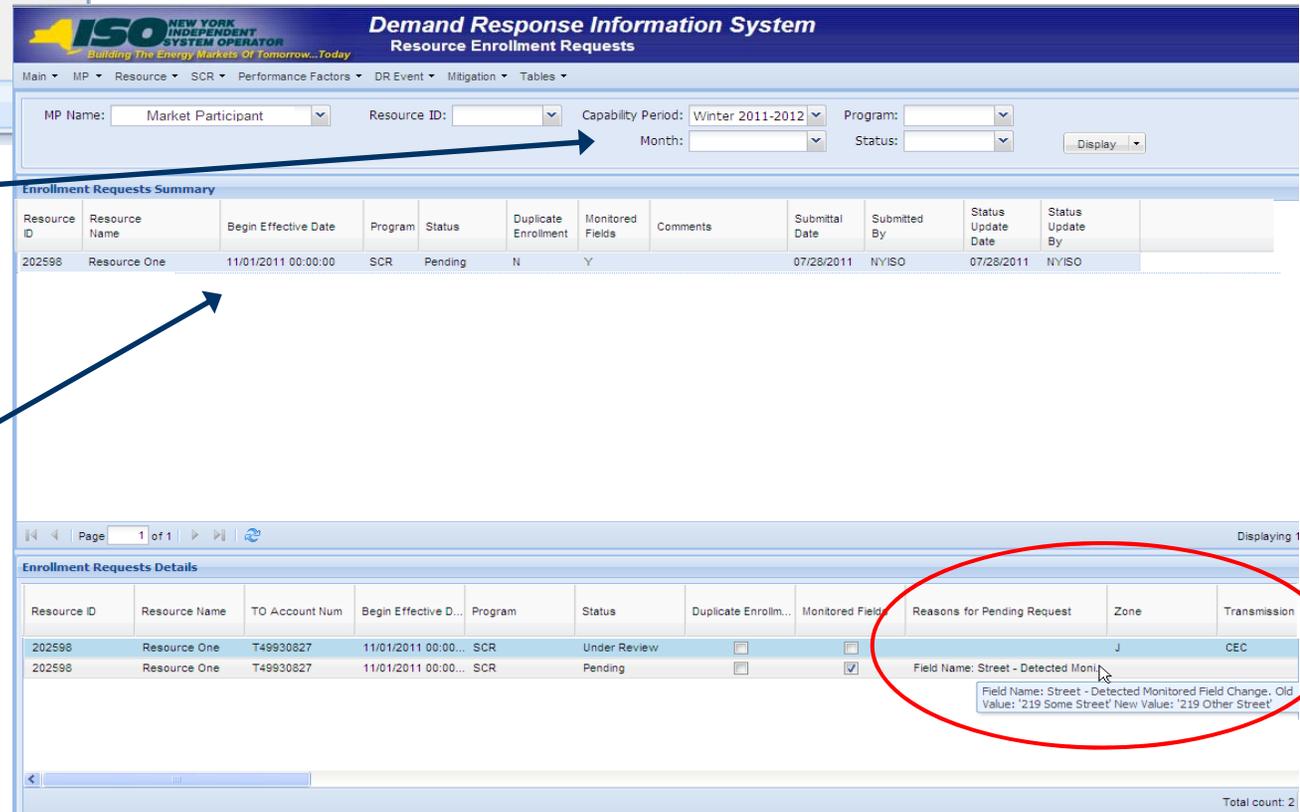
- ◆ Identify Resources with an Enrollment Status of Pending or Under Review on the UCAP Export
 - *UCAP Export*

Ability to View "Reasons for Pending Request" of a Resource



- From the DRIS menu, select Resource and then Enrollment Requests

- Enter search criteria for the Pending resource and from the Enrollment Requests Summary select the resource to view additional details



Enrollment Requests Summary

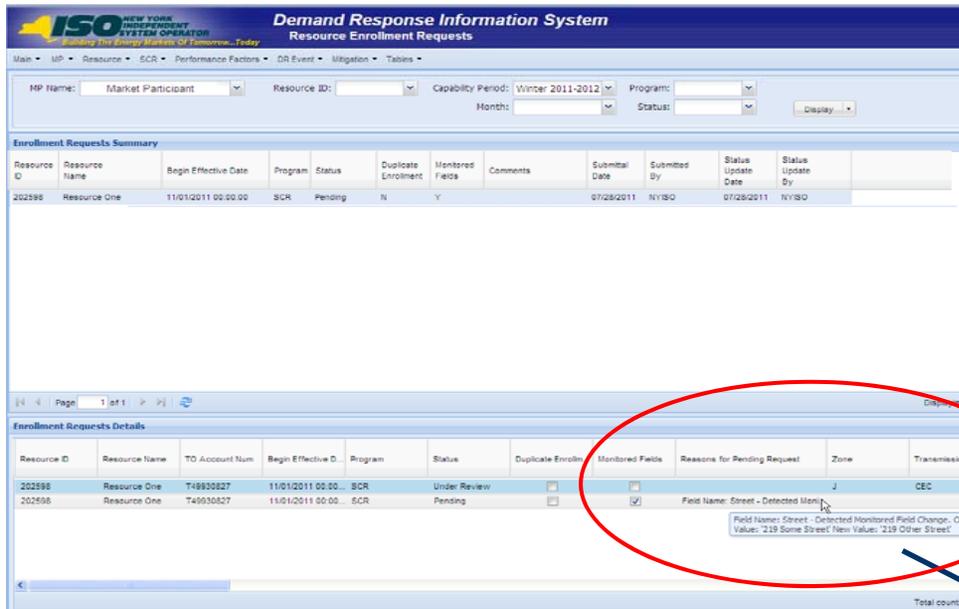
Resource ID	Resource Name	Begin Effective Date	Program	Status	Duplicate Enrollment	Monitored Fields	Comments	Submittal Date	Submitted By	Status Update Date	Status Update By
202598	Resource One	11/01/2011 00:00:00	SCR	Pending	N	Y		07/28/2011	NYISO	07/28/2011	NYISO

Enrollment Requests Details

Resource ID	Resource Name	TO Account Num	Begin Effective D...	Program	Status	Duplicate Enrollm...	Monitored Field	Reasons for Pending Request	Zone	Transmission
202598	Resource One	T49930827	11/01/2011 00:00...	SCR	Under Review	<input type="checkbox"/>	<input type="checkbox"/>		J	CEC
202598	Resource One	T49930827	11/01/2011 00:00...	SCR	Pending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Field Name: Street - Detected Moni...		

Field Name: Street - Detected Monitored Field Change, Old Value: '219 Some Street' New Value: '219 Other Street'

Ability to View "Reasons for Pending Request" of a Resource



Demand Response Information System
Resource Enrollment Requests

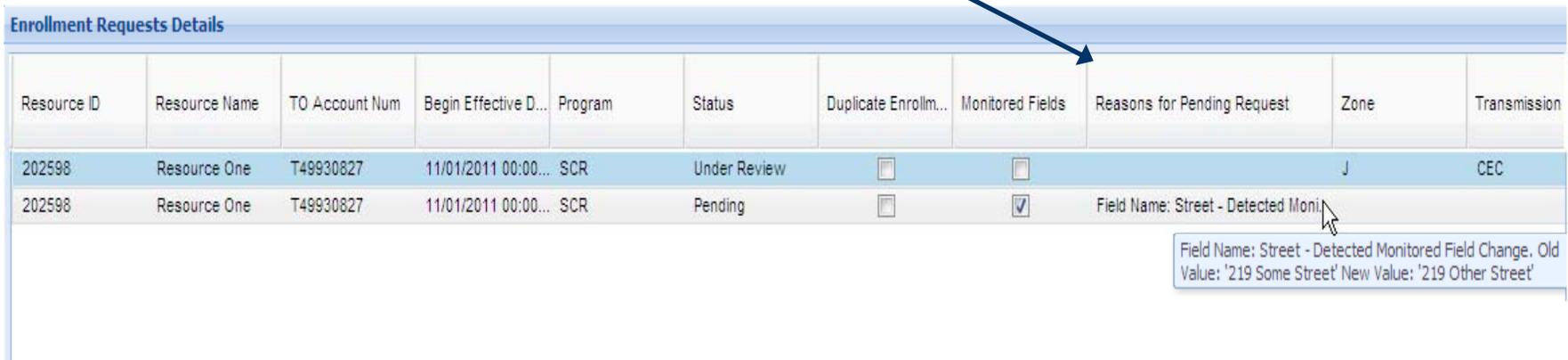
MP Name: Market Participant | Resource ID: | Capability Period: Winter 2011-2012 | Program: | Month: | Status: | Display

Resource ID	Resource Name	Begin Effective Date	Program	Status	Duplicate Enrollment	Monitored Fields	Comments	Submital Date	Submitted By	Status Update Date	Status Update By
202598	Resource One	11/01/2011 00:00:00	SCR	Pending	N	Y		07/28/2011	NYISO	07/28/2011	NYISO

Enrollment Requests Details

Resource ID	Resource Name	TO Account Num	Begin Effective D...	Program	Status	Duplicate Enrollm...	Monitored Fields	Reasons for Pending Request	Zone	Transmission
202598	Resource One	T49930827	11/01/2011 00:00...	SCR	Under Review	<input type="checkbox"/>	<input type="checkbox"/>		J	CEC
202598	Resource One	T49930827	11/01/2011 00:00...	SCR	Pending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Field Name: Street - Detected Moni...		

- View "Reasons for Pending Request" field. Hover over the field to view multiple reasons



Enrollment Requests Details

Resource ID	Resource Name	TO Account Num	Begin Effective D...	Program	Status	Duplicate Enrollm...	Monitored Fields	Reasons for Pending Request	Zone	Transmission
202598	Resource One	T49930827	11/01/2011 00:00...	SCR	Under Review	<input type="checkbox"/>	<input type="checkbox"/>		J	CEC
202598	Resource One	T49930827	11/01/2011 00:00...	SCR	Pending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Field Name: Street - Detected Moni...		

Field Name: Street - Detected Monitored Field Change. Old Value: '219 Some Street' New Value: '219 Other Street'

Resource Enrollment Approval Date



From the DRIS menu select Resource and then Capability Period Enrollments

Demand Response Information System
Resource Capability Period Enrollments

Main ▾ MP ▾ Resource ▾ SCR ▾ Performance Factors ▾ DR Event ▾ Mitigation ▾ Tables ▾

MP Name: Resource ID: Capability Period: Program: Zone:

Capability Period Enrollments

Resource ID	Resource Name	Capability Period	Zone	Sub-load Pocket	SCR		EDRP	
					Approval Date	Enrollment Date	Approval Date	Enrollment Date
202598	Resource One	Winter 2011-2012	J		07/28/2011	11/01/2011		
202599	Resource Three	Winter 2011-2012	J		07/28/2011	11/01/2011		
202604	Resource Two	Winter 2011-2012	J		07/28/2011	11/01/2011		

Resource Enrollment Approval Date

- ◆ **Approval Date:** Date resource was imported and Enrolled or Date Pending Request was approved
- ◆ **Enrollment Date:** First day of the auction month for which the resource enrollment begins
- ◆ Sort on the Approval Date field to view resources required to perform in the first and second test in the Capability Period

Determine Resources Required to Test

- ◆ ICAP Manual Section 4.12.4.5 Testing of Special Case Resources
 - All Special Case Resources enrolled with and accepted by the NYISO on or before the date that is four business days prior to the date of the first test in the Capability Period (excluding the date of the test), such enrollment in any auction month within the Capability Period, must perform in the first test for each Capability Period in which the Resource is accepted on any date regardless of whether megawatts from the Special Case Resource had been offered prior to the date of the test.
 - All Special Case Resources enrolled with and accepted by the NYISO, such enrollment in any auction month within the Capability Period, that were not required to perform in the first Capability Period test shall perform in the second test within the Capability Period.

Transmission Owner Field



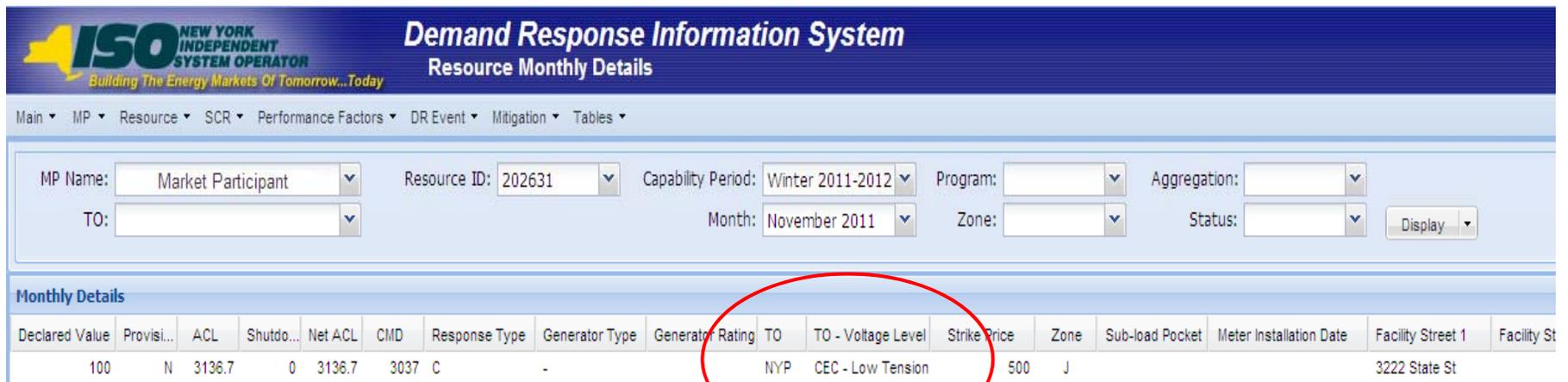
Demand Response Information System
Resource Monthly Details

Main ▾ MP ▾ Resource ▾ SCR ▾ Performance Factors ▾ DR Event ▾ Mitigation ▾ Tables ▾

MP Name: Market Participant ▾ Resource ID: 202631 ▾ Capability Period: Winter 2011-2012 ▾ Program: ▾ Aggregation: ▾
TO: ▾ Month: November 2011 ▾ Zone: ▾ Status: ▾ Display ▾

Monthly Details

Resource ID	Resource Name	TO Account Num...	Month	Begin Effective Date	End Effective Date	Status	Program	Floor P...	Subscribed Load	Subscribed Gen	Performance Fac...	UCAP	Aggregation	ICAP	Transmission Loss Factor
202631	Resource One	T7547547657	Nove...	11/01/2011 00:00:00	04/30/2012 23:59...	Enrol...	SCR	<input type="checkbox"/>	100		0	0	4252	105	0.04813



Demand Response Information System
Resource Monthly Details

Main ▾ MP ▾ Resource ▾ SCR ▾ Performance Factors ▾ DR Event ▾ Mitigation ▾ Tables ▾

MP Name: Market Participant ▾ Resource ID: 202631 ▾ Capability Period: Winter 2011-2012 ▾ Program: ▾ Aggregation: ▾
TO: ▾ Month: November 2011 ▾ Zone: ▾ Status: ▾ Display ▾

Monthly Details

Declared Value	Provisi...	ACL	Shutdo...	Net ACL	CMD	Response Type	Generator Type	Generator Rating	TO	TO - Voltage Level	Strike Price	Zone	Sub-load Pocket	Meter Installation Date	Facility Street 1	Facility St
100	N	3136.7	0	3136.7	3037	C	-		NYP	CEC - Low Tension	500	J			3222 State St	

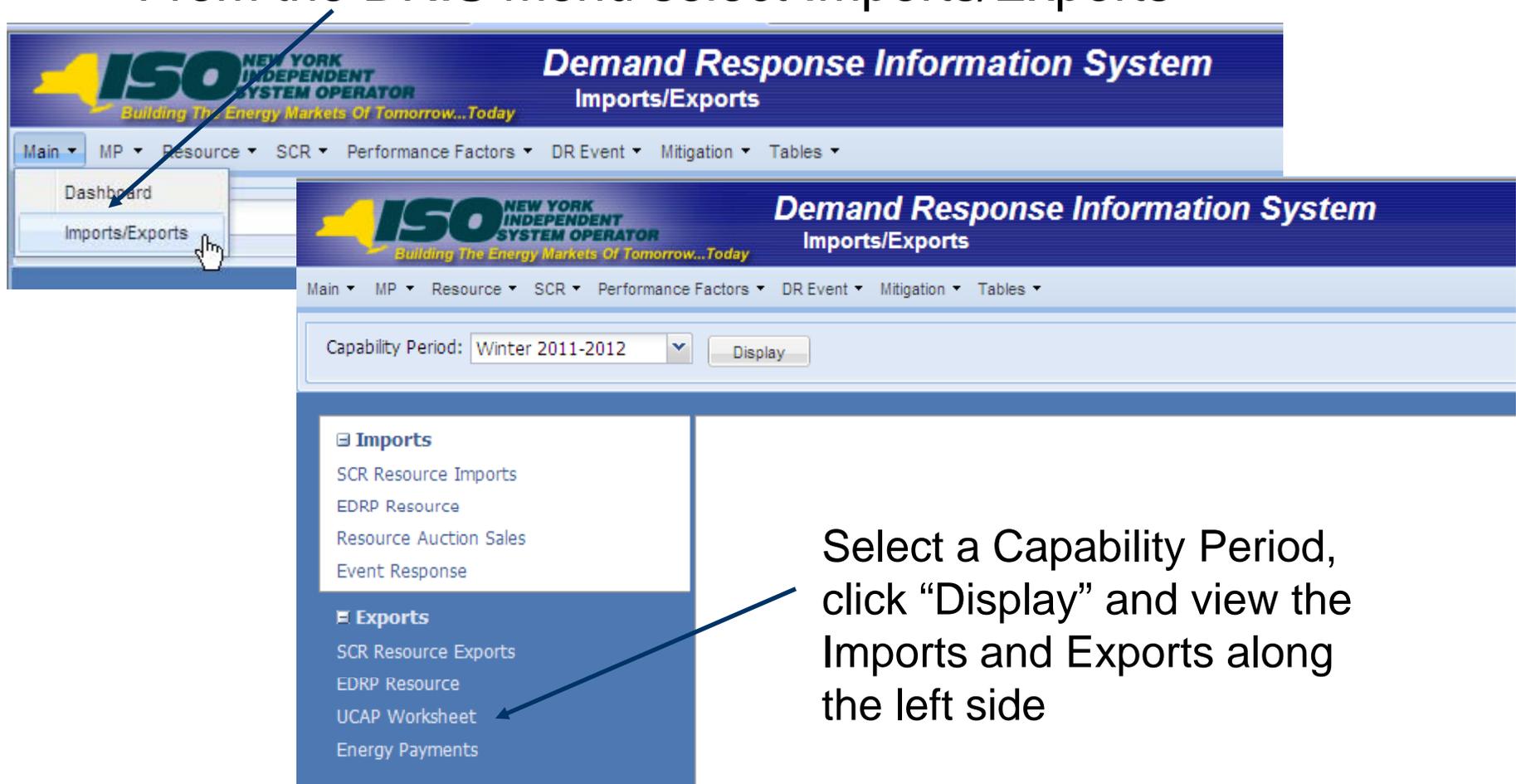
- ◆ From the DRIS menu, select Resource and then Monthly Details
- ◆ The new field for Transmission Owner is the 26th field from the left and requires scrolling across the screen

Resources which are Pending Enrollment or have an Under Review Enrollment on the UCAP Export

- ◆ If a resource is Pending an Enrollment Request or has been placed Under Review by the NYISO, they will appear listed separately from their Aggregation on the UCAP Export
- ◆ The Aggregations to which the resource belongs will not have a total Aggregation UCAP MW listed until the Pending or Under Review resource is resolved (Approved/Denied or Enrolled/Separated)
- ◆ A Warning will appear at the top of the UCAP Export
 - *Warning: One or more Aggregations contain a resource(s) with a Pending or Under Review Status. The UCAP MW value of these Aggregations are not listed on this export*

UCAP Export

- ◆ Export UCAP Worksheet
- ◆ From the DRIS menu select Imports/Exports



The screenshot displays the DRIS web application interface. At the top, the header reads "Demand Response Information System Imports/Exports" with the ISO logo. Below the header is a navigation menu with options: Main, MP, Resource, SCR, Performance Factors, DR Event, Mitigation, and Tables. A dropdown menu is open under "Resource", showing "Dashboard" and "Imports/Exports". A blue arrow points from the "Imports/Exports" option in the dropdown to the "Imports/Exports" link in the main navigation menu. Below the navigation menu, there is a "Capability Period" dropdown set to "Winter 2011-2012" and a "Display" button. On the left side, there is a sidebar menu with two sections: "Imports" and "Exports". The "Imports" section includes "SCR Resource Imports", "EDRP Resource", "Resource Auction Sales", and "Event Response". The "Exports" section includes "SCR Resource Exports", "EDRP Resource", "UCAP Worksheet", and "Energy Payments". A blue arrow points from the "UCAP Worksheet" link in the sidebar to the text on the right.

Select a Capability Period, click "Display" and view the Imports and Exports along the left side

Pending or Under Review Resources on the UCAP Export

- Warning displayed at the top of the UCAP Export

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB									
1	WARNING: One or more aggregations contain a resource(s) with a Pending or Under Review Status. The UCAP MW value of these Aggregations are not listed on this export.																																				
2																																					
3	Sub Date	Dem	Dem	Effective	Aggreg	RIP	RIP Name	Resource	Nar	Zon	Locali	Resource Id	Me	Account	Type	TLF	Peak 1	Peak 2	Peak 3	Peak 4	Decl	APMD	CMD	ICAP	Stri	P_Fact	UCAP	Off UCAP									
4	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 1	I	ROS	7897897891	T123456789	C	0.0481	43.1	43.1	43.1	43.1	13	43	30	14	500	1	14												
5	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 2	I	ROS	5474747757	T123456790	C	0.0481	80.3	80.3	80.3	80.3	13	80	67	14	500	1	14												
6	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 3	I	ROS	7774764764	T123456791	C	0.0481	81.7	81.7	81.7	81.7	13	82	69	14	500	1	14												
7	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 4	I	ROS	7657658585	T123456792	C	0.0121	2602.9	2602.9	2603	2602.9	2573	2603	30	2604	500	1	2604												
8	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 5	I	ROS	8658586586	T123456793	C	0.0121	2602.9	2602.9	2603	2602.9	2573	2603	30	2604	500	0.984	2563												
9	4/15/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 6	I	ROS	6867475475	T123456794	C	0.0481	463.4	463.4	463.4	463.4	56	463	407	59	500	0.592	34												
10	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 7	I	ROS	5656536565	T123456795	C	0.0481	524.5	524.5	524.5	524.5	79	525	446	83	500	0.772	64												
11	4/15/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 8	I	ROS	6546546565	T123456796	C	0.0481	101.4	101.4	101.4	101.4	44	101	57	46	500	0.997	45												
12	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 9	I	ROS	4543545354	T123456797	C	0.0481	64.3	64.3	64.3	64.3	13	64	51	14	500	1	14												
13	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 10	I	ROS	4545454554	T123456798	C	0.0481	89.8	89.8	89.8	89.8	13	90	77	14	500	0.767	10												
14	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 11	I	ROS	6547565466	T123456799	C	0.0481	70.7	70.7	70.7	70.7	13	71	58	14	500	0.673	9												
15	4/13/2011	2011	Summ	5/1/2011	1234	1	Market Parti	Resource 12	I	ROS	4324234423	T123456800	C	0.0481	92.9	92.9	92.9	92.9	13	93	80	14	500	0.807	11												
16																							1234	I											Aggregate 1234 -	5396	5.3
17																																					
18	4/13/2011	2011	Summ	5/1/2011	5678	1	Market Parti	Resource 13	H	ROS	7678657677	T123456801	C	0.0121	4839.8	4839.8	4840	4839.8	3540	4840	1300	3583	500	0.991	3551												
19	4/13/2011	2011	Summ	5/1/2011	5678	1	Market Parti	Resource 14	H	ROS	5656636356	T123456802	C	0.0481	85.5	85.5	85.5	85.5	13	86	73	14	500	0.673	9												
20	4/13/2011	2011	Summ	5/1/2011	5678	1	Market Parti	Resource 15	H	ROS	5435435454	T123456803	C	0.0481	105.3	105.3	105.3	105.3	13	105	92	14	500	0.883	12												
21	4/15/2011	2011	Summ	5/1/2011	5678	1	Market Parti	Resource 16	H	ROS	6467566545	T123456804	C	0.0481	421.6	421.6	421.6	421.6	62	422	360	65	500	1	65												
22																							5678	H											Aggregate 5678 -	H	
23																																					
24	4/13/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 17	E	ROS	9979769799	T123456805	C	0.0121	4839.8	4839.8	4840	4839.8	3540	4840	1300	3583	500	0.991	3551												
25	4/13/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 18	E	ROS	5754654656	T123456806	C	0.0481	85.5	85.5	85.5	85.5	13	86	73	14	500	0.673	9												
26	4/13/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 19	E	ROS	5454354543	T123456807	C	0.0481	105.3	105.3	105.3	105.3	13	105	92	14	500	0.883	12												
27	4/15/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 20	E	ROS	6466564699	T123456808	C	0.0481	421.6	421.6	421.6	421.6	62	422	360	65	500	1	65												
28																							1212	E											Aggregate 1212 -	E	
29																																					
30																													5.3								

Pending or Under Review Resources on the UCAP Export

- ◆ Resources Pending or Under Review listed at the bottom of the UCAP Export
- ◆ Aggregation 5678 and Aggregation 1212

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AE
25	4/13/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 18	E	ROS	5754654656	T123456806	C	0.0481	85.5	85.5	85.5	85.5	13	86	73	14	500	0.673	9			
26	4/13/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 19	E	ROS	5454354543	T123456807	C	0.0481	105.3	105.3	105.3	105.3	13	105	92	14	500	0.883	12			
27	4/15/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 20	E	ROS	6466564699	T123456808	C	0.0481	421.6	421.6	421.6	421.6	62	422	360	65	500	1	65			
28					1212					E																	Aggregate 1212 - E	
29																												
30																												
31	RIP P_Factor																											
32	Summer 2011																											
33	0.9171																											
34																												
35																												
36	Resource(s) listed below have a Pending enrollment request status.																											
37	4/13/2011	2011	Summ	5/1/2011	5678	1	Market Parti	Resource 21	H	ROS	6466564692	T123456809	C	0.0481	372	372	372	372	286	372	86	300	500	0.999	299			
38	4/13/2011	2011	Summ	5/1/2011	5678	1	Market Parti	Resource 22	H	ROS	6464575477	T123456810	C	0.0481	2035.6	2035.6	2036	2035.6	103	2036	1933	108	500	0.542	58			
39																												
40																												
41	Resource(s) listed below have an Under Review enrollment status.																											
42	4/13/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 23	E	ROS	7474747777	T123456814	C	0.0481	372	372	372	372	286	372	86	300	500	0.999	299			
43	4/19/2011	2011	Summ	5/1/2011	1212	1	Market Parti	Resource 24	E	ROS	5464543666	T123456815	C	0.0481	2035.6	2035.6	2036	2035.6	103	2036	1933	108	500	0.542	58			
44																												
45																												
46	Resource(s) listed below have a Separated enrollment status.																											
47	4/13/2011	2011	Summ	5/1/2011	4632	1	Market Parti	Resource 25	J	NYC	5475754757	T123456819	C	0.0481	372	372	372	372	286	372	86	300	500	0.999	299			
48	4/19/2011	2011	Summ	5/1/2011	4632	1	Market Parti	Resource 26	J	NYC	7647456547	T123456820	C	0.0481	2035.6	2035.6	2036	2035.6	103	2036	1933	108	500	0.542	58			
49																												
50																												

Pending or Under Review Resources on the UCAP Export

- ◆ Aggregation 5678 and Aggregation 1212 have no UCAP MW total
- ◆ The MP UCAP MW total does not include any resources from Agg ID 5678 or Agg ID 1212 until all resources in the two Aggregations are resolved

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1	WARNING: One or more aggregations contain a resource(s) with a Pending or Under Review Status. The UCAP MW value of these Aggregations are not listed on this export.																											
2																												
3	Sub Date	Dem \Dem	Effective	Aggreg	RIP	RIP Name	Resource	Nar	Zon	Local	Resource Id	Me	Account	Type	TLF	Peak 1	Peak 2	Peak 3	Peak 4	Decl	APMD	CMD	ICAP	Stril	P_Fact	UCAP	Off	UCAP
4	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 1	I	ROS	7897897891	T123456789	C	0.0481	43.1	43.1	43.1	43.1	13	43	30	14	500	1	14				
5	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 2	I	ROS	5474747757	T123456790	C	0.0481	80.3	80.3	80.3	80.3	13	80	67	14	500	1	14				
6	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 3	I	ROS	7774764764	T123456791	C	0.0481	81.7	81.7	81.7	81.7	13	82	69	14	500	1	14				
7	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 4	I	ROS	7657658585	T123456792	C	0.0121	2602.9	2602.9	2603	2602.9	2573	2603	30	2604	500	1	2604				
8	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 5	I	ROS	8658586586	T123456793	C	0.0121	2602.9	2602.9	2603	2602.9	2573	2603	30	2604	500	0.984	2563				
9	4/15/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 6	I	ROS	6867475475	T123456794	C	0.0481	463.4	463.4	463.4	463.4	56	463	407	59	500	0.592	34				
10	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 7	I	ROS	5656536565	T123456795	C	0.0481	524.5	524.5	524.5	524.5	79	525	446	83	500	0.772	64				
11	4/15/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 8	I	ROS	6546546565	T123456796	C	0.0481	101.4	101.4	101.4	101.4	44	101	57	46	500	0.997	45				
12	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 9	I	ROS	4543545354	T123456797	C	0.0481	64.3	64.3	64.3	64.3	13	64	51	14	500	1	14				
13	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 10	I	ROS	4545454554	T123456798	C	0.0481	89.8	89.8	89.8	89.8	13	90	77	14	500	0.767	10				
14	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 11	I	ROS	6547565466	T123456799	C	0.0481	70.7	70.7	70.7	70.7	13	71	58	14	500	0.673	9				
15	4/13/2011	2011	Summ	5/1/2011	1234	1 Market Parti	Resource 12	I	ROS	4324234423	T123456800	C	0.0481	92.9	92.9	92.9	92.9	13	93	80	14	500	0.807	11				
16					1234					I															Aggregate 1234 -	5396	5.3	
17																												
18	4/13/2011	2011	Summ	5/1/2011	5678	1 Market Parti	Resource 13	H	ROS	7678657677	T123456801	C	0.0121	4839.8	4839.8	4840	4839.8	3540	4840	1300	3583	500	0.991	3551				
19	4/13/2011	2011	Summ	5/1/2011	5678	1 Market Parti	Resource 14	H	ROS	5656636356	T123456802	C	0.0481	85.5	85.5	85.5	85.5	13	86	73	14	500	0.673	9				
20	4/13/2011	2011	Summ	5/1/2011	5678	1 Market Parti	Resource 15	H	ROS	5435435454	T123456803	C	0.0481	105.3	105.3	105.3	105.3	13	105	92	14	500	0.883	12				
21	4/15/2011	2011	Summ	5/1/2011	5678	1 Market Parti	Resource 16	H	ROS	6467566545	T123456804	C	0.0481	421.6	421.6	421.6	421.6	62	422	360	65	500	1	65				
22					5678					H															Aggregate 5678 -	H		
23																												
24	4/13/2011	2011	Summ	5/1/2011	1212	1 Market Parti	Resource 17	E	ROS	9979769799	T123456805	C	0.0121	4839.8	4839.8	4840	4839.8	3540	4840	1300	3583	500	0.991	3551				
25	4/13/2011	2011	Summ	5/1/2011	1212	1 Market Parti	Resource 18	E	ROS	5754654656	T123456806	C	0.0481	85.5	85.5	85.5	85.5	13	86	73	14	500	0.673	9				
26	4/13/2011	2011	Summ	5/1/2011	1212	1 Market Parti	Resource 19	E	ROS	5454354543	T123456807	C	0.0481	105.3	105.3	105.3	105.3	13	105	92	14	500	0.883	12				
27	4/15/2011	2011	Summ	5/1/2011	1212	1 Market Parti	Resource 20	E	ROS	6466564699	T123456808	C	0.0481	421.6	421.6	421.6	421.6	62	422	360	65	500	1	65				
28					1212					E															Aggregate 1212 -	E		
29																												
30																												



The New York Independent System Operator (NYISO) is a not-for-profit corporation that began operations in 1999. The NYISO operates New York's bulk electricity grid, administers the state's wholesale electricity markets, and provides comprehensive reliability planning for the state's bulk electricity system.

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