

Demand Response Information System (DRIS) Training for June 2010 Deployment Part 1 – Introduction to DRIS

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May 11, 2010 1:00 pm - 4:00 pm May 17, 2010 1:00 pm - 4:00 pm (Webex only) June 8, 2010 9:00 am - 12:00 pm

Rensselaer, NY



Training Topics

- Part 1: Introduction to DRIS
 - DRIS User Requirements
 - Accessing DRIS
 - DRIS User Interface features
 - Terminology
 - Dashboard
 - DRIS Calendar
 - SCR and EDRP Activity Timelines
- Part 2: Imports and Exports
- Part 3: Resource Import File
 - Import Exceptions
- Part 4: Post-Import Operations
 - View Pending Records

- Part 5: Aggregations
 - Requesting Aggregation IDs
 - Aggregation Management
 - Strike Price
- Part 6: Other DRIS Operations
 - UCAP Report
 - Viewing Resource Information
- Part 7: Training, Market Trials and Deployment
 - Additional DRIS Training sessions for June Deployment
 - Market Trials
 - Deployment



DRIS User Requirements

- NYISO Digital Certificate
 - Steps to NYISO website page:
 - Markets & Operations ->Customer Support ->Digital Certificate Info
 - NYISO website link:
 - https://cert.nyiso.com/domainmain.xuda?domainID=360b3b3b0a5d87283208f7c29ab7b14711b23b57
- MIS User Account
 - Contact your MIS Administrator
 - Request DRIS privileges
 - MP_user
 - Read and write capabilities
 - MP_observer
 - Read only capabilities
 - DRIS privileges will be available in MIS before the June deployment
 - An e-mail communication will be sent when the DRIS privileges are available for assignment in MIS



Accessing DRIS

- NYISO Market Access Login
 - http://www.nyiso.com/public/markets_operations/m arket_data/market_access_login/index.jsp
- ICAP Market Page
 - http://www.nyiso.com/public/markets_operations/m arket_data/icap/index.jsp
- Demand Response Page
 - http://www.nyiso.com/public/markets_operations/m arket_data/demand_response/index.jsp



NYISO Market Access Login

http://www.nyiso.com/public/markets_operations/market_data/market_access_login/index.jsp

Markets & Operations -

Market Data

Market & Operational Data

Pricing Data

Power Grid Data

Load Data

Reports & Information

Postings by Date

Zone Maps

Graphs

Market Access Login

Custom Reports

TCC

ICAP

Demand Response

Ancillary Services

Services

Financial Services [+]

Customer Registration

Reliability Compliance

Market Training [+]
Proposed
Market Moration

Market Access Login

Pricing Data	Power Grid Data	Load Data	Reports & Info	Postings by Date	Maps	Graphs	Market Access Login
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Market Access Logins

Bidding & Scheduling

- * Marketplace Login (User & Admin)
- ▶ * Bidding & Scheduling Upload/Download

Settlement Data Exchange

- * SDX Upload/Download
- * Marketplace Login (User& Admin)
- SDX User's Guide

ICAP Automated Markets

- * User Login
- * ICAP Upload/Download

Demand Response Information System

*User Login

TCC Automated Market

- * User Login
- TCC User Documents

Decision Support System (DSS)

- * User Login
- * Account Request
- DSS Documents

Outage Schedule (TOA)

* User Login

Power Contracts Bulletin Board (IRC)

- User Login
- Information
- View as Guest (read only)

MIS Instructions

- MIS Work Flows
- Market Participant User Guide (MPUG)
- ▶ Draft Bidding & Scheduling Error Messages

Please Note: * Requires A Valid NYISO Digital Certificate To Login

Need Help? Got a Question? Should you require any assistance - you may contact the NYISO Customer Support team by clicking on the link below.

Send An Email - Click Here Now »



ICAP Market Page

http://www.nyiso.com/public/markets_operations/market_data/icap/index.jsp

Markets & Operations -

ICAP Data & Information

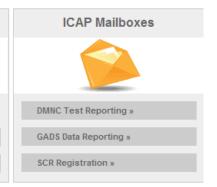
The New York Installed Capacity (ICAP) market is based on the obligation placed on load serving entities (LSEs) to procure ICAP to meet minimum requirements. The requirements are determined by forecasting each LSE's contribution to its transmission district peak load, plus an additional amount



to cover the Installed Reserve Margin. The amount of capacity that each supplying resource is qualified to provide to the New York Control Area (NYCA) is determined by an Unforced Capacity (UCAP) methodology. NYISO ICAP auctions are designed to accommodate LSEs and suppliers' efforts to enter intoUCAP transactions. They are open to all registered NYISO customers.

ICAP Market Access

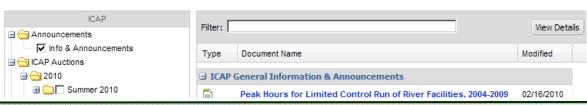




Proposed Location

ICAP Documents & Resources

ICAP Resources





Demand Response Programs Page

http://www.nyiso.com/public/markets_operations/market_data/demand_response/index.jsp

Markets & Operations >

Demand Response Programs

The NYISO has four Demand Response programs: the Emergency Demand Response Program (EDRP), the ICAP Special Case Resources (SCR) program, the Day Ahead Demand Response Program (DADRP) and the Demand Side Ancillary Services Program (DSASP).

Both the EDRP and SCR program can be deployed in energy shortage situations to maintain the reliability of the bulk power grid. Both programs are designed to reduce power usage through shutting down of businesses and large power users. Companies, mostly industrial and commercial, sign up to take part in the programs. The companies are paid by the NYISO for reducing energy consumption when asked to do so by the NYISO. Reductions are voluntary for EDRP participants. SCR participants are required to reduce power usage and as part of their agreement are paid in advance for agreeing to cut power usage upon request.

The NYISO's Day-Ahead Demand Response Program (DADRP) allows energy users to bid their load reductions, or "negawatts", into the Day-Ahead energy market as generators do. Offers determined to be economic are paid at the market clearing price. DADRP allows flexible loads to effectively increase the amount of supply in the market and moderate prices.

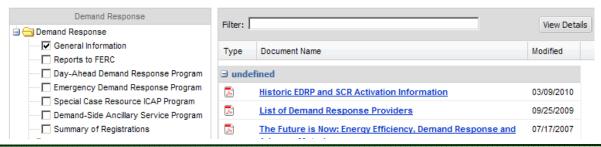
The Demand Side Ancillary Services Program (DSASP) provides retail customers that can meet telemetry and other qualification requirements with an opportunity to bid their load curtailment capability into the DAM and/or Real-Time Market to provide Operating Reserves and regulation service. Scheduled offers are paid the appropriate marketing clearing price for reserves and/or regulation.

Proposed Location



➤Demand Response Information System – User Login

Demand Response





DRIS Log In



- Click on "User Login" to get to the DRIS General Information page
- Enter the MIS user name and password
- DRIS Dashboard is displayed



DRIS Log Out

 Select "Logout" in the lower right of the bottom status bar

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You are logged in as Name (Logout)

 Once logged out, the user may log back in by clicking on the hyperlink in the Logout confirmation message

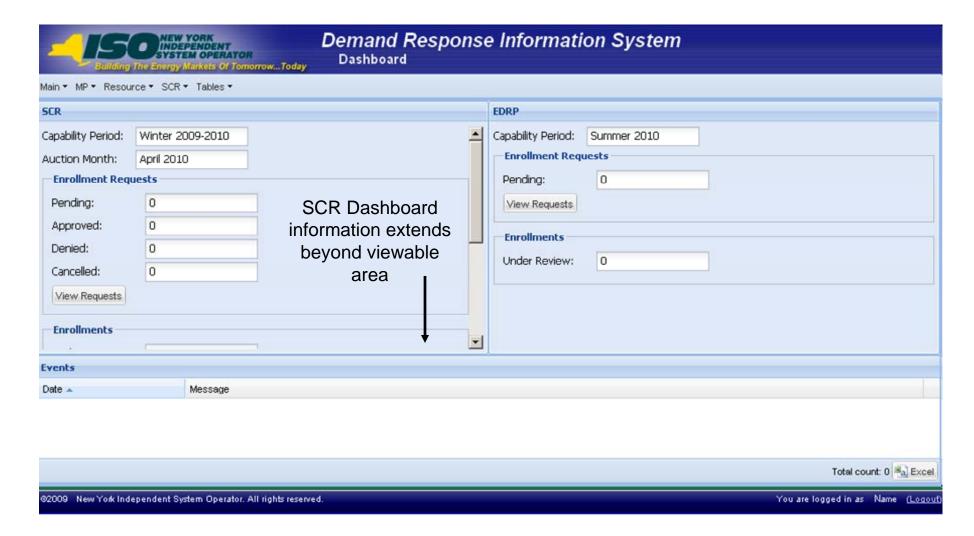


Demand Response Information System Logout

Log Out Successful. Click Here to Login Again.



DRIS Dashboard



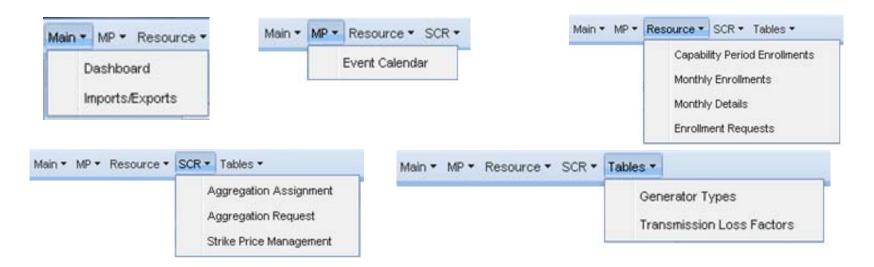


The DRIS Interface

- Menus
- Grids
- Context-Sensitive Filters
- Filters/Search Criteria
- Sort Controls



DRIS Menus



Main	MP	Resource	SCR	Tables
Dashboard	Event Calendar	Capability Period Enrollments	Aggregation Assignment	Generator Types
Imports/Exports		Monthly Enrollments	Aggregation Request	Transmission Loss Factors
		Monthly Details	Strike Price Management	
		Enrollment Requests		



DRIS Grids

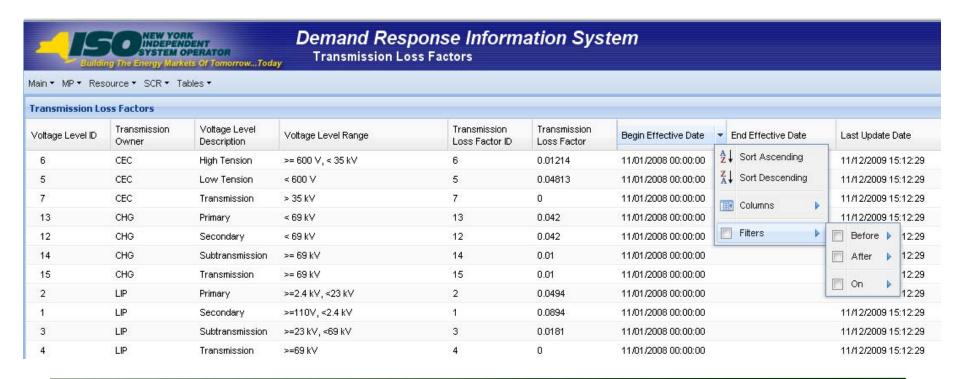
Data displayed in tabular format

Bullan		RK IDENT OPERATOR less Of TomorrowToda	Demand Respo		ation Sys	tem		
Main ▼ MP ▼ Res	ource - SCR - T	ables ▼						
ransmission Lo	ss Factors							
/oltage Level ID	Transmission Owner	Voltage Level Description	Voltage Level Range	Transmission Loss Factor ID	Transmission Loss Factor	Begin Effective Date	End Effective Date	Last Update Date
6	CEC	High Tension	>= 600 V, < 35 kV	6	0.01214	11/01/2008 00:00:00		11/12/2009 15:12:2
5	CEC	Low Tension	< 600 V	5	0.04813	11/01/2008 00:00:00		11/12/2009 15:12:2
7	CEC	Transmission	> 35 kV	7	0	11/01/2008 00:00:00		11/12/2009 15:12:2
13	CHG	Primary	< 69 kV	13	0.042	11/01/2008 00:00:00		11/12/2009 15:12:2
12	CHG	Secondary	< 69 kV	12	0.042	11/01/2008 00:00:00		11/12/2009 15:12:2
14	CHG	Subtransmission	>= 69 kV	14	0.01	11/01/2008 00:00:00		11/12/2009 15:12:2
15	CHG	Transmission	>= 69 kV	15	0.01	11/01/2008 00:00:00		11/12/2009 15:12:2
2	LIP	Primary	>=2.4 kV, <23 kV	2	0.0494	11/01/2008 00:00:00		11/12/2009 15:12:2
1	LIP	Secondary	>=110V, <2.4 kV	1	0.0894	11/01/2008 00:00:00		11/12/2009 15:12:2
3	LIP	Subtransmission	>=23 kV, <69 kV	3	0.0181	11/01/2008 00:00:00		11/12/2009 15:12:2
4	LIP	Transmission	>=69 kV	4	0	11/01/2008 00:00:00		11/12/2009 15:12:2
17	NMP	Primary	2.2-15 kV	17	0.0694	11/01/2008 00:00:00		11/12/2009 15:12:2
16	NMP	Secondary	0-2.2 kV	16	0.0918	11/01/2008 00:00:00		11/12/2009 15:12:2
18	NMP	Subtransmission	22-50 kV	18	0.053	11/01/2008 00:00:00		11/12/2009 15:12:2
19	NMP	Transmission	>= 60 kV	19	0.0267	11/01/2008 00:00:00		11/12/2009 15:12:2
21	NYS	Primary	>=2400, <35 kV (regulated)	21	0.048	11/01/2008 00:00:00		11/12/2009 15:12:2



DRIS Context-Sensitive Filters

- From the column header, click on "Filters" to see any context sensitive filter capability
 - Applicable while viewing, would need to be reset if user moves to another page and returns





DRIS Sort Controls

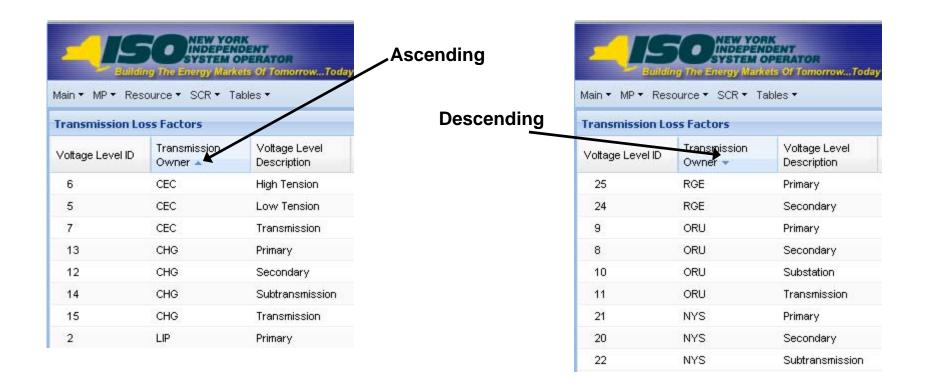
- Ability to sort grid data for a single field in ascending or descending order
 - Select column header and right-click to select "Ascending" or "Descending"
 - OR
 - Click column header

Demand Response Information System Transmission Loss Factors Main * MP * Resource * SCR * Tables *								
Fransmission Lo	ss Factors							
Voltage Level ID	Transmission Owner	Voltage Level Description	Voltage Level Range	Transmission Loss Factor ID	Transmission Loss Factor	Begin Effective Date		
6	CEC	♣↓ Sort Ascending	600 V, < 35 kV	6	0.01214	11/01/2008 00:00:00		
5	CEC	Z Sort Descending	00 ∨	5	0.04813	11/01/2008 00:00:00		
7	CEC	A,	5 kV	7	0	11/01/2008 00:00:00		
13	CHG	Columns	9 kV	13	0.042	11/01/2008 00:00:00		
12	CHG	Filters	9 kV	12	0.042	11/01/2008 00:00:00		
14	CHG	Subtransmission	>= 69 kV	14	0.01	11/01/2008 00:00:00		
15	CHG	Transmission	>= 69 kV	15	0.01	11/01/2008 00:00:00		



DRIS Sort Controls - After

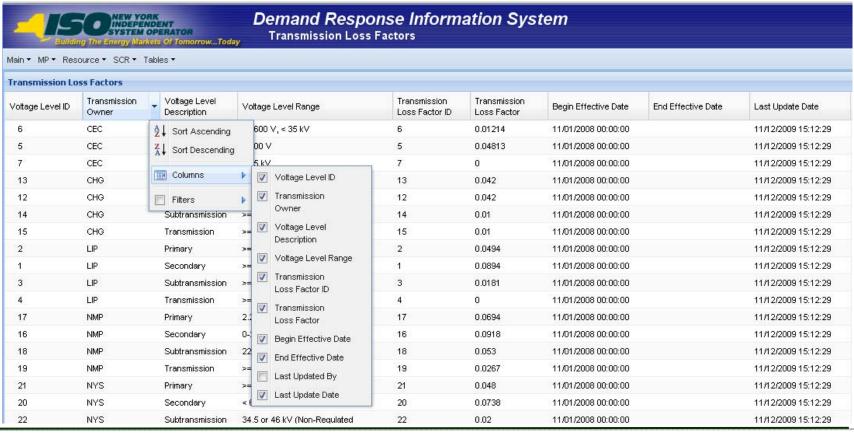
 Sorted column displays with an arrow to indicate sort order





DRIS Column Controls

Ability to select columns to display

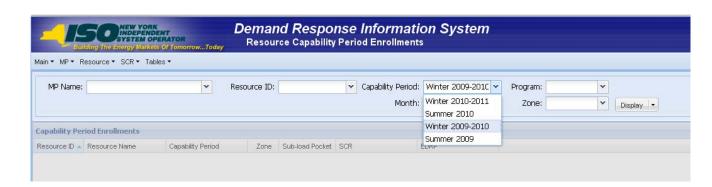




DRIS Filters/Search Criteria

- Filters or searches based on multiple fields
 - Drop-down lists and cascading drop-down lists
- Click "Display" button to view results

Drop-down list



Cascading Drop-down list



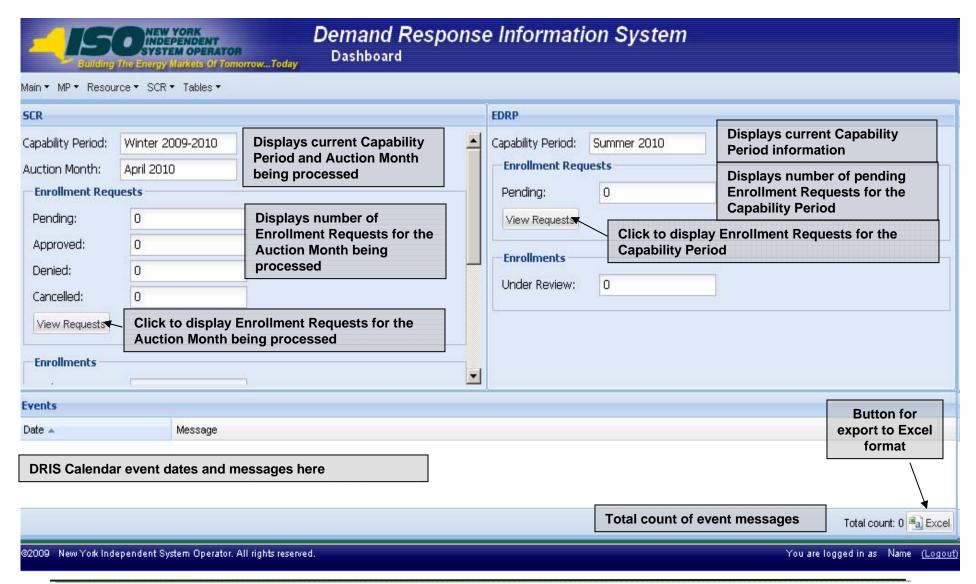


Terminology

- Registration vs. Enrollment
- Enrollment Request
- Enrollment
 - Enrollment Status Types
 - Under Review set by AMO
- Monitored Fields
- Parsing Errors
- Exceptions

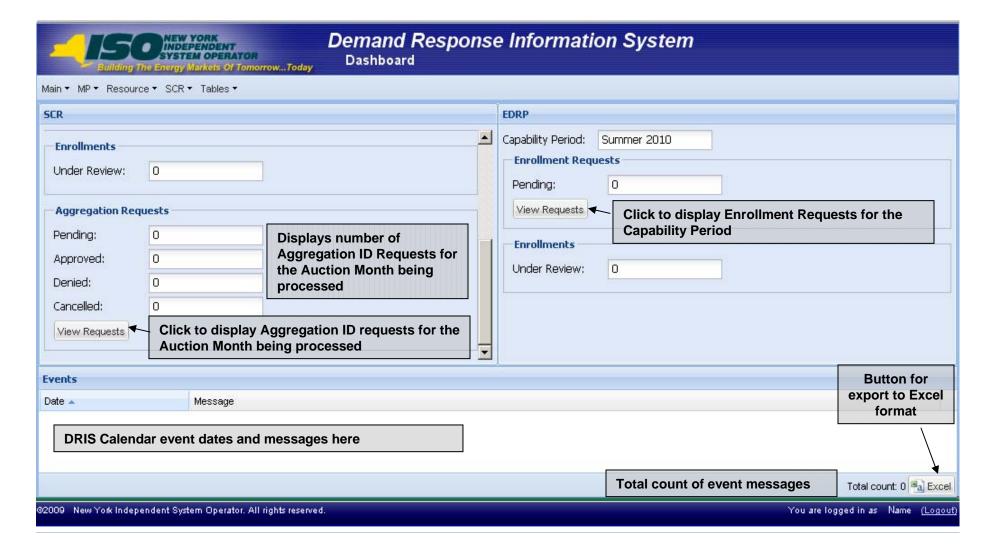


Dashboard





Dashboard - continued





Types of DRIS Calendar Events

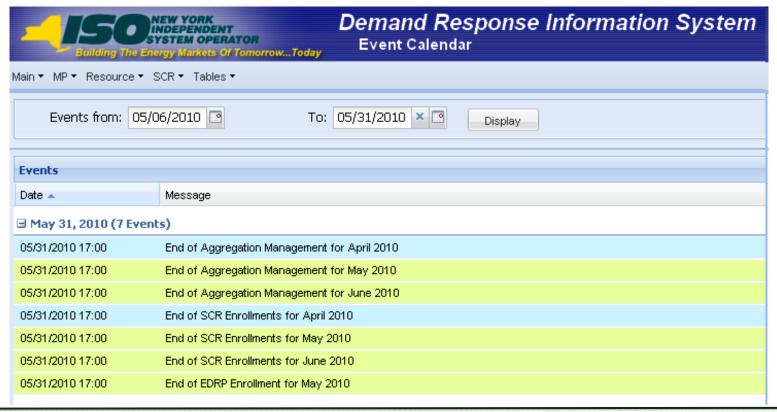
- SCR Resource Enrollment activity Start Date
- SCR Resource Enrollment activity End Date
- Aggregation ID Request Start Date
- Aggregation ID Request End Date
- Aggregation Management Start Date
- Aggregation Management End Date*
- Certification open/close*
- Spot Market Auction open/close/post*
- EDRP Resource Enrollment activity Start Date
- EDRP Resource Enrollment activity End Date

^{*} Calendar events that will display in both DRIS and the ICAP Market System



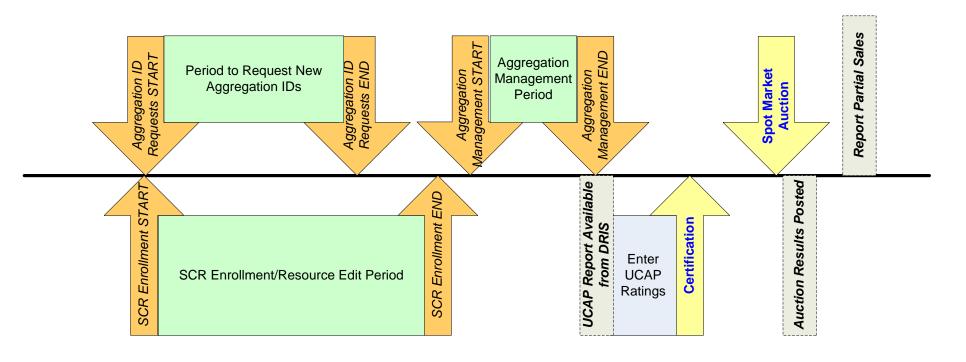
Calendar

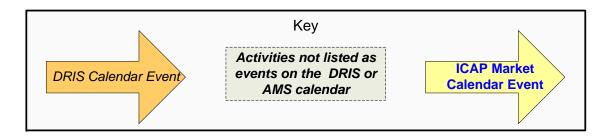
- Selected from Main Menu
 - Also displays first 10 entries at the bottom of the Dashboard
- Activities are color-coded for different seasons
 - Light blue = Winter
 - Light yellow = Summer





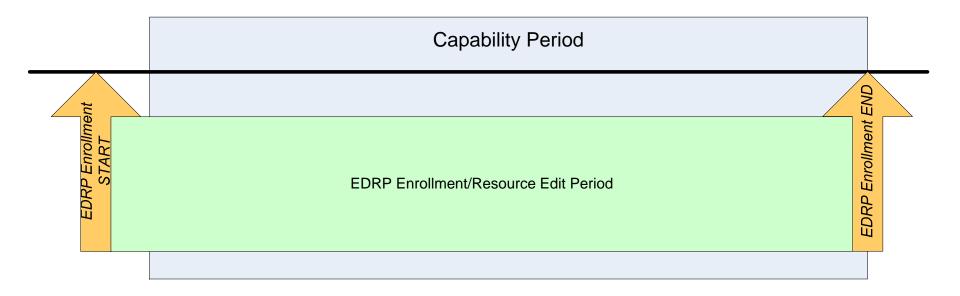
SCR Timeline

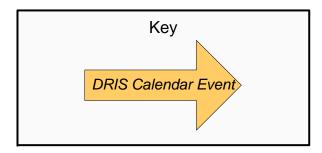






EDRP Timeline







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.

www.nyiso.com