

# Part 2 – DSASP Overview

## DSASP Aggregations Overview (Demand Side Ancillary Services Program)

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*Tuesday, March 5<sup>th</sup>, 2013 09:00 AM – 12:00 PM*

*Thursday, March 14<sup>th</sup>, 2013 01:00 PM – 04:00 PM*

**Web Ex - Rensselaer, NY**

# Training Topics

- ◆ Part 1: Introduction to DRIS
  - *DRIS User Requirements*
  - *User Privileges*
  - *Access to DRIS*
- ◆ **Part 2: DSASP Overview**
- ◆ Part 3: DSASP Resource Enrollment in DRIS
  - *Export Enrollment File*
  - *Import DSASP Resources*
  - *Resource Import Validations*
  - *Manage Import Results*
- ◆ Part 4: DSASP Aggregations in DRIS
  - *View DSASP Aggregations and Resources*
  - *DSASP Resource Enrollment Statuses*
  - *Manage DSASP Aggregations*
- ◆ Part 5: DSASP Resource Registration for MIS
  - *Export DSASP Resource Report from DRIS*
  - *Submit DSASP Registration Report*
- ◆ Part 6: Submitted Aggregations in DRIS
  - *View History of Submitted Aggregations*
- ◆ Part 7: View DSASP Resource Enrollment in DRIS
- ◆ Part 8: Deployment
  - *Additional Training Sessions*
  - *Deployment Activities*

# DSASP Overview Topics

- ◆ Demand Side Ancillary Services Program
- ◆ DSASP Terminology
- ◆ DSASP Aggregation Functionality
  - *DSASP Aggregations*
  - *Program Participation*
  - *Registration*
  - *Communication*
- ◆ Ancillary Services Manual Language

# **DEMAND SIDE ANCILLARY SERVICES PROGRAM**

# DSASP

- ◆ Deployed in 2008
- ◆ Allows for Demand-Side Resources to participate in the Ancillary Services Program to provide operating reserves or regulation
  - *Interruptible loads for Spinning Reserves and/or Regulation*
  - *Loads with a qualified behind-the-meter Local Generator for Non-Synchronous Reserves*
    - **Behind the Meter Generation Rule: NPCC A06 – Section 3.10.2:**  
*“Loads cannot provide Synchronized Reserve if the reduction in Load is dependent on starting a generator to replace energy that is supplied from the grid.”*
- ◆ Must be 1 MW or greater
- ◆ Modeled at physical location
- ◆ May communicate through the Transmission Owner or have Direct Communication with the NYISO

# Resource Response Obligations when Jointly Enrolled

- ◆ **When jointly enrolled in a reliability program and an economic program:**
  - ***DSASP resources must respond to SCR or EDRP activations***
    - **If any specific DSR within a DSASP Resource is jointly enrolled in a reliability program, the entire DSASP Resource is automatically pulled out of Dispatch**
    - **At the time of the Event Notification for a 2-Hour Activation or an Immediate Activation, any scheduled DSASP Resources are automatically pulled out of Dispatch for the duration of the Event Hours (Automated process triggered by event notification)**
    - **If an Event is terminated early, the MP is responsible for resubmitting any DSASP bids**

# **DSASP TERMINOLOGY**

# DSASP Terminology

## ◆ Demand Side Resource:

- *A resource located in the NYCA that is capable of controlling demand in a responsive, measurable and verifiable manner with in time limits, and that is qualified to participate in competitive Energy, Capacity, Operating Reserves or Regulation or in the EDRP*
  - Ex: Retail locations, office buildings, etc.

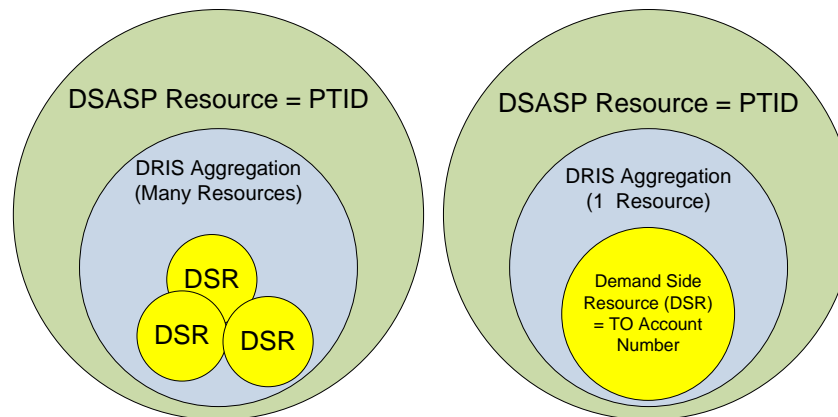
## ◆ DSASP Resource (MIS & Tariff term):

- *The representation of the capability of an individual resource or a DSASP Aggregation as an ancillary service supplier located in the NYCA with at least 1 MW of reduction that is represented by a point identifier (PTID) assigned to a Load Zone or Subzone by the ISO*
  - Ex: Individual or Aggregate of DSRs represented as a single entity



# DSASP Terminology continued

- ◆ **DSASP Aggregation (DRIS term):**
  - *One or more individual demand-side resources that make up a DSASP Resource. Resources are grouped by zone and resource type for participation in either operating reserves or regulation services*
  - *The DSASP Aggregation cumulative offering must be greater than or equal to 1 MW to participate*



# **DSASP Aggregation Functionality**

# DSASP Aggregations

- ◆ **Allows for smaller Demand-Side Resources to Aggregate in order to participate in the Ancillary Services Program**
  - *Aggregate by zone*
  - *The aggregation must be 1MW or greater*
  - *A DSASP Resource comprised of an aggregation of Demand-Side Resources will be modeled at one predetermined location within each zone*
  - *Must specify a reduction for both Capability Periods*
  - *May communicate through the Transmission Owner or have Direct Communication with the NYISO*
- ◆ **Deployment for the Demand Response Information System (DRIS) scheduled for March 2013**
- ◆ **Aggregations will be permitted to begin submitting DSASP Resource Registrations for the program as of April 1<sup>st</sup>, 2013**

# DSASP – Zonal Bus Points

- ◆ DSASP Aggregations will be modeled at the following Zonal Bus Points:

Zone	Zone Name	Station	Aggregate DR Station
A	WEST	PACKARD 115	DRA PACK 115
B	GENESE	S42 115	DRB S42 115
C	CENTRL	SOLVAY 115	DRC SLVY 115
D	NORTH	PL-6C 115	DRD POTL 115
E	MHK VL	EDIC PTR 115	DRE EDIC 115
F	CAPITL	PATROON 115	DRF PATR 115
G	HUD VL	ROCKTVRN 115	DRG RCKT 115
H	MILLWD	MILLWOOD 138	DRH MLLW 138
I	DUNWOD	DUNWODIE 138	DRI DUNW 138
J	N.Y.C.	E13THSTA 69	DRJ E13T 69
K	LONGIL	BRENTWOD 69	DRK BRNT 69

- ◆ Modeled as a Generator

- *Single DSR– At closest physical bus point*
- *Aggregation of multiple DSRs – Assigned bus point per zone*

# Program Participation

- ◆ **DSASP Resource Participation**
  - *Two DSASP Aggregations of multiple DSRs allowed, per Market Participant (MP) per Zone*
  
  - *Aggregation Product Types (One of each)*
    - Synchronous
      - Ability to offer Regulation Services
    - Non-Synchronous
  
  - *No Limit on Individual Demand Side Resources participating as an aggregation of one and modeled as a single PTID at the closest physical bus point*

# DSASP Resource Registration Process Flow

- ◆ Enrollment of Demand Side Resources into DRIS
- ◆ Registration of DSASP Resource
- ◆ Modeling
- ◆ Testing
- ◆ Market Participation



# DSASP Resource Enrollment: DRIS

- ◆ **Demand Side Resources will be validated and be aggregated through DRIS**
  - *MPs will import individual Demand Side Resources, to form a DSASP Resource (Aggregation)*
  - *MPs will manage resources to create aggregations*
  - *DRIS will validate individual and aggregate level information in order to prepare for registration submittal*
  - *DRIS will perform validation, enrollment and record keeping functionality*

**DRIS manages and tracks individual Demand Side Resources which make up the DSASP Resource (Aggregation/Gen PTID).**

# **DSASP Resource Registration: Gen PTID**

- ◆ **MP will send DSASP Resource Registration Packet with DSASP Resource Report to NYISO Member Relations (MR)**
- ◆ **Operations will model Aggregation (Multiple Demand Side Resources) as a single Unit (DSASP Resource)**
- ◆ **Member Relations enter DSASP Resource into MIS, with a single Gen PTID**
- ◆ **DSASP Resource Provider contacts Stakeholder Services to schedule:**
  - *Communications Test (IT Grid Ops)*
  - *Pre-Qualification Test (Operations)*



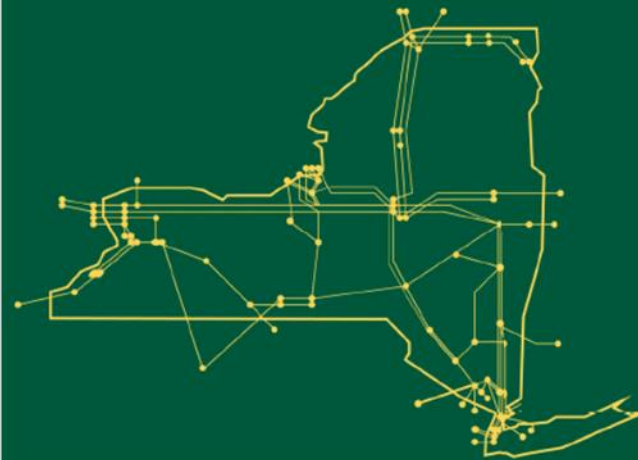
# Communication Path

- ◆ **DSASP Resources have two choices for Communication**
  - ***Direct Communication (ICCP)***
    - **Connect and communicate directly with the NYISO**
    - **Initial Program wide 150MW cap**
  - ***Communication through TO (ICCP)***

# Ancillary Services Manual

- ◆ **New DSASP section under 6.2.3 “Other Supplier Requirements”**
- ◆ **Topics:**
  - *Requirements for DSASP Resources*
  - *DSASP Provider Responsibilities*
  - *Interaction with other NYISO Demand Response Programs (existing DSASP program rule)*
  - *Participation Requirements*
  - *Enrolling Demand Side Resources in DSASP*
  - *Modeling of DSASP Resources*
  - *Communication Requirements*
  - *Limit on Direct Communications for DSASP*
  - *Changes to DSASP Resources*
  - *Metering and Measurement of DSASP Resources*

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