

# CRIS for External-to-ROS Transmission Investment

External-to-ROS Deliverability Rights (EDR)

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# Agenda

- **Background**
- **Scope Considerations**
- **Proposed Tariff Revisions**
- **Next Steps**
- **Appendix I: EDR Features**
- **Appendix II: EDR Enhancements**

# Background

# Background

- **Joint IITF/TPAS Meetings**

- HQUS proposed that NYISO develop a method of awarding CRIS to entities that create increased transfer capability into Rest of State (ROS) via transmission upgrades over external interfaces (e.g., the Queue No. 430 Cedars Rapids Transmission intertie project)

- **January 19, 2011 ICAPWG**

- The NYISO committed to reviewing the interaction between requests for External CRIS Rights from new non-UDR transmission and the current process for optimizing annual import limits

- **NYISO 12/16/2015 ICAPWG presentation**

- Options presented:
  - Link the incremental transfer capability created by the transmission expansion process to the External CRIS Rights request in the CY Deliverability Study process, or
  - Obtain CRIS through a “UDR-Like” Model
  - Stakeholders commented that developing market rules surrounding External to ROS Deliverability Rights would incentivize transmission expansion and may provide significant benefits

# FERC Waiver

- **HQUS requested and FERC granted a waiver that permits HQUS to request, and be eligible to receive, CRIS corresponding to the incremental transfer capability (in MW) created by its Queue No. 430 Cedars Rapids Transmission intertie project , see H.Q. Energy Services (U.S.) Inc., FERC Docket No. ER17-505-000; Order Granting Tariff Waiver, 58 FERC ¶ 61,098 (2017).**
  - FERC noted that the issue was not addressed earlier due to other priorities, rather than objections from the NYISO or other stakeholders.
  - The waiver was limited to the specific HQUS Project.
- **FERC directed that CRIS obtained through the waiver should expired upon occurrence of the following events:**
  - Termination of the HQUS Project by the project being withdrawn from the NYISO Interconnection Queue
  - If EDRs or a similar solution is successfully developed in the 2018 project process, but HQUS fails to pursue the procedures to obtain such an opportunity.
  - The issuance of a final, non-appealable FERC order resulting in the HQUS Project being ineligible to obtain EDRs or a similar capacity market opportunity.

# Background

- The NYISO presented its market design concept proposal at the August 22, 2017 ICAPWG/TPAS
  - Additional stakeholder meetings discussed this topic:
    - 12/16/2015
    - 8/22/2017
    - 10/24/2017
    - 1/25/2018

# Market Principle

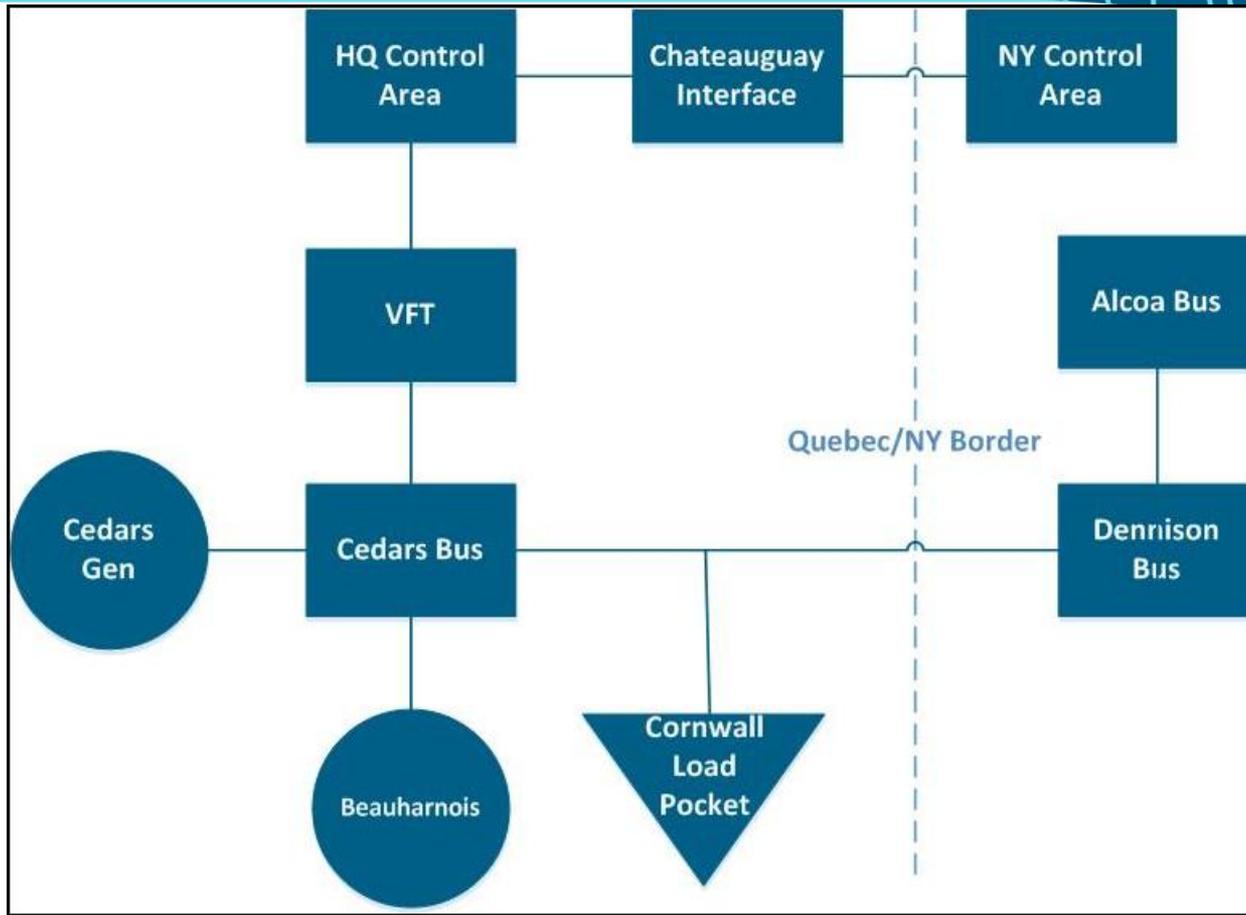
- Foster a market environment conducive to new investments

# Project and Presentation Overview

- **This project will allow an entity to receive CRIS corresponding to incremental transfer capability on external interfaces that sink into ROS created by transmission upgrades**
  - The project must meet all of the other External-to-ROS Deliverability Rights (EDRs) qualification requirements
- **This presentation**
  - Discusses issues related to additional scope
  - Includes proposed draft tariff revisions to establish the applicable interconnection procedures for obtaining CRIS for such transmission upgrades and market rules for the participation using EDRs

# Current NYISO Interconnection Queue Project

- The Cedar Rapids Transmission project
  - H.Q. Energy Services U.S., Inc. is the Developer
  - Upgrades the Dennison – Alcoa 115kV transmission facility
  - Located in Load Zone D (NORTH)
  - The Transmission Owner of the facility being upgraded is National Grid
  - The project is an AC upgrade
  - The project application under the Transmission Interconnection Procedures was dated March 5, 2014
  - The proposed Commercial Operation Date date is Q4 2019



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# Items for Consideration Beyond the Scope of this Project

# Market Design Considerations Associated with Expanding UDR Definition

- **The following are market design hurdles that would need to be resolved:**
  - Rules to allow a UDR to sink into ROS while being sourced from a location external to NYCA would need to be developed
  - Rules to allow a UDR to sink into a Locality while being sourced from a different locality would need to be developed
    - e.g., A UDR that is sourced in Zone G and sinks in Zone J
  - Considerations if some UDRs could sink in Localities and some could not:
    - The treatment of such UDRs in planning studies would have to be agreed upon
  - Market rule changes would need to be evaluated to allow this product to participate in the market; for example
    - The impact on Locational Minimum Installed Capacity Requirements (LCRs) and the Installed Reserve Margin (IRM) cannot be quantified today
    - Would need to consider implications on the pricing hierarchy rules
  - HQ Cedars uprate would not qualify for a UDR product without significant expansions to the definition of a UDR
    - Expansion of the UDR definition would basically result in creating two types of UDRs, akin to two separate definitions; one that sinks in a Locality and the other that sinks in ROS
- **Due to these complications, the NYISO is moving forward with its original proposal to create a new product**

# Market Design Considerations for Allowing EDRs to Sink into a Locality

- **There are significant market design considerations to allowing an EDR to sink into a Locality**
  - Can the EDR be used to meet Locality requirements?
  - What price should be paid to an EDR sinking into a Locality?
  - Is controllability a prerequisite for Locality capacity payments?
    - If controllability is not important for EDRs, then should imports over an AC interface be paid a blended price?
    - Are there consequences for reliability?
  - Planning impacts
    - The influence of an EDR that sinks in a Locality on planning study results, and impact on the LCR for a Locality if the resource cannot be used to meet the LCR for that same Locality
    - Impacts of having a resource sink into a Locality and consume deliverability Headroom, but is unable to sell into the Locality
- **Due to these complications, the NYISO is moving forward with its original proposal, and is further proposing the aforementioned issues be included as a project for prioritization**

# Tariff Revisions

# Tariff Revisions

- Revisions are included in the following tariff sections:
  - MST 2.5 Definitions
  - MST Section 5.12
  - OATT 25.1 Introduction
  - OATT 25.3 Deliverability Interconnection Standard
  - OATT 25.6 Cost Allocation Methodology for ERIS
  - OATT 25.7 Cost Allocation Methodology for CRIS
  - OATT 25.8 Project Cost Allocation Decisions
  - OATT 30.14 Appendices

# Next Steps

# Timeline

Date	Targeted Event
Q1 2018 ICAPWG/TPAS Meetings	ICAPWG/TPAS to present draft tariff language
Targeting 3/15/2018	BIC vote
Targeting 3/28/2018	MC vote
Q2 2019	Implementation

# Appendix I: EDR Features

# EDR Features

- **Allow entities to request CRIS associated with EDRs by undergoing a Deliverability evaluation in a Class Year Study**
  - Before requesting CRIS in a Class Year Study, however, a Developer would need to propose a transmission upgrade to increase transfer capability by submitting an application under the Transmission Interconnection Procedures (TIP)
    - A System Impact Study and a Facilities Study would be performed as part of the TIP
    - The TIP evaluations would be limited to the reliability impacts of the proposed transmission upgrade
  - The project would be evaluated for CRIS in a Class Year
    - The Class Year evaluation would be limited to the evaluation of the transmission upgrade's incremental transfer capability under the Deliverability Interconnection Standard
    - The Developer must have a completed System Impact Study of the transmission upgrade that creates the incremental transfer capability before entering a Class Year to request CRIS
  - The CRIS requested can be no greater than the MW of the incremental transfer capability determined by the NYSIO in the SIS to be created by the transmission upgrade

# EDR Features

- **External to ROS Deliverability Rights (EDR)**
  - Used for new or incremental transfer capability on a Scheduled Line over an External interface, caused or created by investment in transmission facilities
  - Must sink in ROS (*i.e.*, not a Locality)
- **External capacity will sink in ROS and will be treated like other imports into ROS**
  - Does not require the addition of interfaces in the ICAP auction

# EDR Features

- **As a Scheduled Line**
  - Provides a measurable and knowable increase in transfer capability
  - Will not apply to AC tie lines into ROS
- **No obligation to offer capacity associated with the EDRs**
- **No minimum price offer**
- **The NYISO will account for line availability and line losses**

# EDR Features

- **CRIS can be transferred to an EDR project from either a generator, UDR, or another EDR project**
- **The Developer/holder of the CRIS associated with an EDR can change (subject to ISO Procedures)**
  - The holder of the CRIS will have the same opportunity as other ICAP Suppliers to identify a different billing organization or bidding organization
- **EDRs would not be limited in duration**

# EDR Features

## ■ Annual Election

- Rightsholder may elect to return a MW amount of their EDRs, up to the maximum MW awarded
- MW returned will be available to be treated as emergency assistance in the IRM and LCR studies
- UCAP associated with the MW of EDRs “returned” cannot be offered in the ICAP market

# EDR Features

- If a new Locality (New Capacity Zone (NCZ)) is created including the Load Zone in which the EDR sinks, then the EDR will no longer be an EDR; *i.e.*, it will not be eligible to qualify to offer capacity

# Appendix II: EDR Enhancements

# EDR Enhancements

- **The NYISO will continue with the limited scope of allowing only incremental transfer capability on Scheduled Lines sinking into ROS to be an EDR**
  - However, the NYISO plans to propose the potential additional enhancements described in the following slide for a 2019 project

# 2019 Project Prioritization

- The following are draft project prioritization descriptions for potential 2019 projects to accommodate proposed enhancements/expansions of the 2018 project, should the EDR concept be approved by stakeholders and FERC in 2018:

## **External-to-ROS Deliverability Rights (EDRs) for External Transmission Upgrades**

This project will consider expanding upon the External-to-ROS Deliverability Right (EDR) participation model. As part of this endeavor, the NYISO will examine the potential for a Market Participant to receive EDRs to participate in the Capacity market by funding transmission system upgrades external to the NYCA that increase transfer capability at an external interface.

## **External-to-ROS Deliverability Right (EDR)/ Unforced Capacity Deliverability Right (UDR) Coordination**

This project will consider expanding upon the External-to-ROS Deliverability Right (EDR) participation model. As part of this effort, the NYISO will consider rules governing allowing an EDR to sink into a Locality, and the transition between EDRs and UDRs.

# The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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