

Market Transparency Initiative

Peter Lemme
New York Independent System Operator

Market Issues Working Group

February 28, 2017 NYISO

The Goal

 To identify and recommend opportunities to improve the availability of market data and information deemed to be desirable by stakeholders

Status to date

- Market Transparency Team established
 May 2016
- Plan presented to MIWG June 2016
 - Introduced initiative
 - Solicited MP transparency suggestions
- Transparency improvement opportunities created from MP feedback, MP service tickets, and SME experience
- Subsequent discussions with various MPs for clarifications
- Several efforts initiated

NYISO Functional Areas with Identified Market Transparency Opportunities

- Outage Scheduling
- TCC Market
- Energy Market
- Market Mitigation & Analysis
- Project Management

Outage Scheduling

- More advanced notice for 138kV Outages
 - Con Edison implemented a new procedure that provides improved advance notice of scheduled 138 kV outages
- Identify reasons for outages
 - Effort underway to list reasons for outages on a daily "NYISO Transfer Limitations Report with Reasons"
 - To be available on the myNYISO secure web site

Outage Scheduling

- Align Two-Year Tx Facilities Outage
 Schedule with TCC Auction Schedule
 - NYISO and the TOs investigated the possibility of moving the release of the "Two-Year Transmission Facilities Outage Schedule" from November 1 to August 1 to better support bidding in the Autumn Centralized Auctions.
 - We have found that the outage schedule is dependent on TO budgeting and work plan development efforts which take place later in the year. As a result we recommend that no change be made to the November 1 date as this represents the earliest date that the information is available.

TCC Market

- Post optimized TCC auction PAR flows and settings resulting from each auction
 - Effort underway to provide via the TCC AMS
- Post TCC Auction results without MP identities
 - Tariff requirement established per FERC Order. The NYISO will not lead efforts to implement this change.

TCC Market

- Provide transmission facility mapping files with TCC auction data
 - Facility mapping files have been provided with the Spring 2017 TCC Auction Data

Line Name	PTID	From Bus	To Bus	Circuit ID	
SHERMCRK-ACADEMY138_331	325755	3	222	1	
SHERMCRK-ACADEMY138_332	325754	4	222	1	
SPRNBRKACADEMY345_M29	325756	5	282	1	
ASTANNEX-ASTORIAE_138_34091	325849	6	38	1	
ASTANNEX-E13THSTA_345_Q35L	25134	8	80	1	
ASTANNEX-E13THSTA_345_Q35M	25142	8	81	1	
ASTANNEXPOLETTI345_ZPOLETTI	325757	8	199	1	
ACTEMBED ACTAMMEV 245 C12	225744	0	10	1	

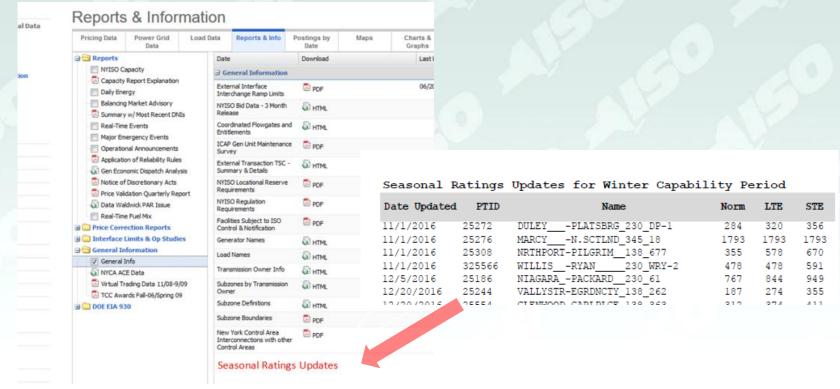
- Provide breaker level maps/models
 - The NYISO will post and maintain a document on OASIS that maps critical breaker outages to contingency cases.
 - To be available on the myNYISO secure web site

Provide breaker level maps/models (cont.)

Seasonal Limits		NYISO TRAN	SFER LIMITATIONS , 2017 to Saturday ,March 25, 2017	
CENTRAL EAST CENTRAL EAST - VC TOTAL EAST UPNY CONED SPR/DUN-SOUTH DYSINGER EAST MOSES SOUTH	3100MW 2975MW 6500MW 5100MW 4600MW 3150MW	The Total Transfer C capability between N limits, or individual t that significantly imp	apabilities (TTCs) indicated in this report IYISO LBMP zones as limited by either in transmission facility thermal limitations. to pact NYISO transfer capability are report values indicated in this report due to una	t represent predicted value Iterface stability limits, volt Only those transmission fa ed. The DAM and HAM valu
Work scheduled by	ontinuous : ConEd	05/28/2017 1600	SPR/DUN-SOUTH Impacts Total T TTC with All Li	FWD (Impo: 3800 : ransfer Capability 800 M nes In Service 4600 !
RAMAPO 345 345 E Fri 06/24/2016 1940	to Thu	0 2	Breaker Outage Tran	sfer Limitations
		Breaker Outages	Contingency Name	Contingency Component Facilities
		DUNWODIE345KV 3 or DUNWODIE345KV_8	MTN:DU WW 3 OR 8 O/S SR 7 OR 5	. CDRNIBRY DIMINODIE 245 W75
		DUNWODIE345KV_4 or DUNWODIE345KV_7	MTN:DU	74
		DUNWODIE345KV_5 or DUNWODIE345KV_6	MTN:DU	

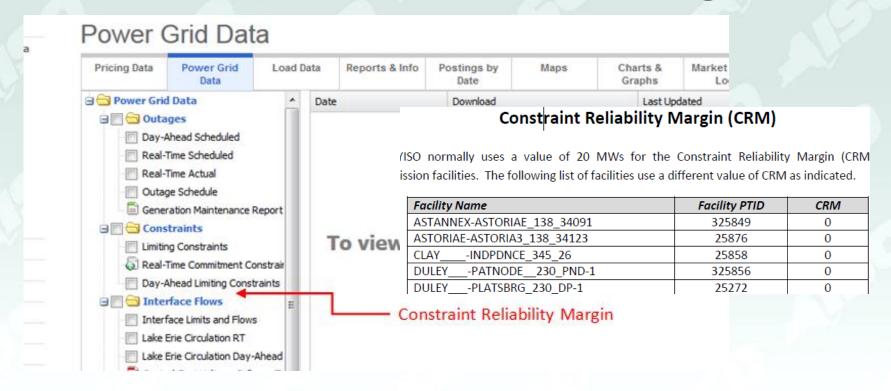
- Post uprates and derates publically and automatically on OASIS when data is received from the TOs.
 - Automation requires a significant project
 - As an alternative the NYISO will publish and maintain a listing of seasonal rating changes

 Post uprates and derates publically and automatically on OASIS when data is received from the TOs (cont.).



- Provide better visibility into Transmission Constraint Pricing
 - The NYISO normally uses a value of 20 MWs for the Constraint Reliability Margin (CRM) on its transmission facilities. A listing of facilities that use a different CRM value will be posted.

 Provide better visibility into Transmission Constraint Pricing



- Provide more granular load data
 - More granular load price data is forthcoming as part of the DER efforts.
 - More granular underlying load bus data requires a significant software effort subject to project prioritization.

Market Mitigation

- Provide transparency into energy price formation
 - Posted bid data includes all bids that passed validation and does not differentiate with respect to rejected, accepted or mitigated bids.
 - NYISO MMA, in consultation with Potomac Economics, is reviewing options to provide improved price formation transparency without compromising confidential bid information.

Project Management

- Provide a web page dedicated to current topics or initiatives under discussion at the NYISO
 - Previously identified and currently underway as a 2017 project
- Provide earlier visibility into projects
 - Going forward the BPWG will draft a list of projects earlier in the project selection process to improve opportunities for stakeholder feedback

Next Steps

- Continue to solicit transparency improvement suggestions
- Continue to pursue identified opportunities

The mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefit 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

www.nyiso.com