

# 2022 - 2023 IRM Proposed MARS Topology Updates

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**NYSRC- Installed Capacity Subcommittee** 

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### **Objective**

#### Review RNA Updates

- Western New York Public Policy Transmission Project impacts
- Status of IESO/NYISO PARS in Zone D
- Cedar Rapids Transmission Upgrade

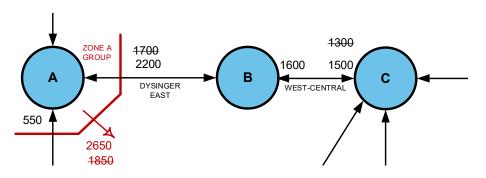


## Western New York Public Policy Transmission Project impacts

- System changes
  - Changes to load patterns and congestions in Western NY
- Topology limit changes

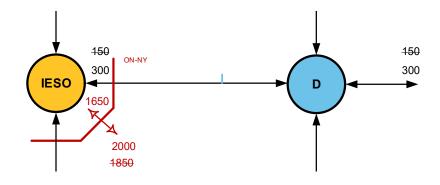
Increased transfer capability between Zones A and B, and between

Zones B and C



### IESO/NYISO PARS in Zone D

- The NYISO received updates from IESO
  - These values are considered preliminary pending final application of the reliability base case inclusion rules
- With 2 PARS in service next year, the transfer limit between IESO and Zone D increases by 150 MW
- IESO group interface limit also increases by 150 MW





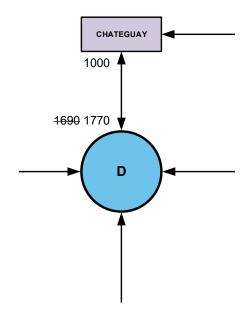
#### **Update to Cedars**

#### The NYISO received updates from the developer

 These values are considered preliminary pending final application of the reliability base case inclusion rules

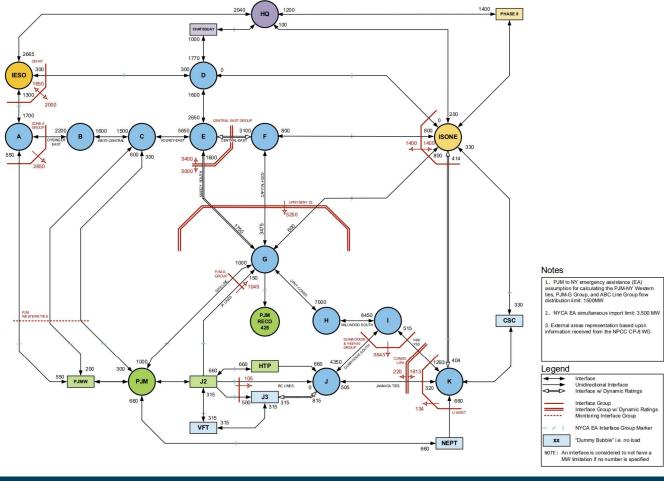
#### Topology limit changes

 Increased transfer capability between Zones D and Chateguay bubble





#### **Draft IRM 2022 Topology For New York Control Area**



#### Draft Topology for 2020 RNA: Study Years 2021-2023 Dynamic Limits and Groupings Information

Interface Group	Limit	Flow Equation	
LI WEST	134	(K to I&J) - 0.13*(K NEPT)	

#### Central East Voltage Limits, Oswego Complex Units

Depends On:	9MILP1, 9MILP2, FPNUC1, STHIND, OS05, OS0						
Units	E_to_F		E_to_F		E_to_	E_to_FG	
Available	Fwd	Rev	Fwd	Rev			
6	3100	1999	5000	3400			
5	3050	1999	4925	3400			
4	2990	1999	4840	3400			
3	2885	1999	4685	3400			
2	2770	1999	4510	3400			
Otherwise	2645	1999	4310	3400			

#### Staten Island Import Limits, AK and Linden CoGen Units

Unit Availability			J_to	_13	
AK02	AK03	LINCOG1	LINCOG2	Fwd	Rev
A	A	A	A	315	200
U .	A	A	A	315	500
A	U	A	A	315	700
Α.	A	U	A	315	500
Α.	Α	A	U	315	500
	Oth	erwise.		315	815

Depends On:	NPRTS1-4	
Units	U_NE	
Available	Norwalk to K	K to Norwalk
4	260	414
Otherwise	404	414

PJM-NY JOA Flow Distribution (Jan 31, 2017 filing)	RECO Load Deliveries	PJM-NY Emergency Assistance
PJM-NY Western Ties	20%	46%
5018 Line	80%	32%
JK Lines	0%	15%
A Line	0%	7%
BC Lines	0%	0%

Depends On:	Barrett1 and 2		
Units	ConEd-LIPA		
Available	IJ to K	K to IJ	
2	1613	220	
1	1613	200	
0	1613	130	

US DL Limit	Units Available		ble
(MW)	CPV	Cricket	Athens
5250	2	3	3
5100	2	3	2
5350	1	3	3
5200	2	2	3
5150	2	1	3
5250	1	1	3
5100	2	0	3
5350	All Other Conditions		tions

Voltage Limited Interfaces Central East MARS Central East Group UPNY-ConEd

E_TO_G DL	Units Available
Limit (MW)	CPV
1750	2
2000	1
2250	0

## Questions?



## Our mission, in collaboration with our 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 policymakers, stakeholders and investors in the power system



