

# Preliminary 2023-2024 LCR Results

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**ICAPWG**

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# Agenda

- **Review Preliminary 2023-2024 LCR Results**
  - IRM Final Base Case with the Tan45 IRM
  - Updated 2023-2024 Net Cone Curves
  - Review updated TSL Floors with the updated methodology
    - Updated Bulk Power Transmission Capabilities
    - Updated Fall Load Forecast, EFORD and SCR values
- **Next Steps**

# IRM Final Base Case

- The IRM Final Base Case (“FBC”) has been constructed and the Tan45 results have been posted for the NYSRC ICS 11/9 meeting

2023-2024 IRM FBC Tan45 Results (to be finalized)				
IRM and Preliminary LCRs (%)	IRM	J LCR	K LCR	G-J
	20.2	78.4	108.0	88.7

- The preliminary 2023-2024 LCRs are based on the FBC database and the Tan45 IRM result
- The IRM will be finalized by the NYSRC on December 9

# 2023-2024 Net CONE Curves

- The Net CONE Curves are updated based on the new Net CONE from the 2023-2024 Updated ICAP Demand Curves
  - All proxy units sizes remain unchanged
    - The current proxy units are based on the 2021-2025 ICAP Demand Curve Reset
    - Updated proxy units will be part of the next cycle of the ICAP Demand Curve Reset process
  - 2023-2024 Net CONEs are updated
  - Slopes on the Net CONE curves remain unchanged

Location & Proxy Unit	LCR (%)	2022-2023 Net CONE Curves		2023-2024 Net CONE Curves	
		Net CONE (\$/kW-yr)		Net CONE (\$/kW-yr)	
NYCA 326.7 MW	112.9	82.62		71.12	
	115.9	84.25		72.75	
	118.9	85.63		74.13	
	121.9	86.94		75.44	
	124.9	87.49		75.99	
G-J 347.0 MW	84.0	110.17		80.41	
	87.0	112.33		82.57	
	90.0	113.90		84.14	
	93.0	115.34		85.59	
	96.0	116.03		86.27	
Zone J 348.8 MW	80.6	157.48		147.67	
	83.6	162.36		152.55	
	86.6	164.34		154.53	
	89.6	165.90		156.09	
	92.6	167.01		157.20	
Zone K 348.8 MW	97.4	76.97		50.95	
	100.4	86.44		60.42	
	103.4	92.28		66.26	
	106.4	95.23		69.21	
	109.4	97.78		71.76	

# Updating the 2023-2024 TSL Floors

- **Consistent with discussions at the 10/4 ICAPWG meeting, the NYISO has updated the method it uses to determine TSL Floors for the 2023-2024 Capability Year LCR determination process**
  - These updates will align the LCR TSL Floor setting process with Transmission Security analysis conducted for Planning purposes
- **To update the 2023-2024 TSL Floors, the following inputs have been updated:**
  - Updated Bulk Transmission Capabilities
  - Updated Load Forecast, Market EFORds, and modeled SCRs

Note: The TSL Floor Calculation method was updated and presented on October 4<sup>th</sup>, 2022:  
[https://www.nyiso.com/documents/20142/33562316/22\\_10\\_04\\_ICAPWG\\_Transmission\\_Security\\_Limit\\_Calculation.pdf](https://www.nyiso.com/documents/20142/33562316/22_10_04_ICAPWG_Transmission_Security_Limit_Calculation.pdf)

# 2023 Bulk Power Transmission Capability

- NYISO posted the 2023 Locality Bulk Power Transmission Capability Report for this 11/14 ICAP Working Group meeting, with updated bulk power transmission capabilities for the TSL Floor calculation
- The updated bulk power transmission capabilities present little change from the capabilities in 2022

Locality	Respected Outage(s)	2023 Capabilities	2022 Capabilities	Delta
Zone K	N-1 <i>Sprain Brook - East Garden City (Y49)</i>	325 MW	325 MW	0 MW
Zone J	N-2 <i>Dunwoodie - Mott Haven (72)</i> <i>Ravenswood 3</i>	2875 MW* 3855 MW - 980 MW <i>(Post-contingency Limit - Largest Single Resource)</i>	2900 MW	-25 MW
G-J Locality	N-1 <i>Athens - Pleasant Valley (91)</i>	3425 MW	3425 MW	0 MW

\*Size of the largest single resource is subtracted from the post-contingency limit to represent the need for making up for the lost of resource as part of the applicable contingency. This approach does not apply in other locality capabilities due to the configuration of the respected contingencies.

# 2023-2024 TSL Floors

Transmission Security Limit Calculation	Formula	G-J	NYC	LI	Notes
Load Forecast (MW)	[A] = Given	15,407	11,285	5,133	[1]
Bulk Power Transmission Limit (MW)	[B] = Studied	3,425	2,875	325	[2]
UCAP Requirement (MW)	[C] = [A]-[B]	11,982	8,410	4,808	
UCAP Requirement Floor	[D] = [C]/[A]	77.8%	74.5%	93.7%	
5-Year Derating Factor	[E] = Given	5.4%	4.5%	6.3%	[3]
Special Case Resources (MW)	[F] = Given	496.6	417.5	33.7	[4]
ICAP Requirement (MW)	[G] = (([C]/(1-[E]))+[F])	13,162	9,224	5,165	
ICAP Requirement Floor (%)	[H] = [G]/[A]	85.4%	81.7%	100.6%	

[1] 2023 Forecasted Load values from 2023 Fall Forecast

[2] Based on the Transmission Security Analysis performed for the 2023-2024 LCR Study

[3] 5-year Market EFORD based on the generation mix in the 2023-2024 IRM FBC

[4] Modeled SCRs are final; consistent with the 2023-2024 IRM FBC

Note: The TSL Floor Calculation method was updated and presented on October 4<sup>th</sup>, 2022:

[https://www.nyiso.com/documents/20142/33562316/22\\_10\\_04\\_ICAPWG\\_Transmission\\_Security\\_Limit\\_Calculation.pdf](https://www.nyiso.com/documents/20142/33562316/22_10_04_ICAPWG_Transmission_Security_Limit_Calculation.pdf)

# Preliminary 2023-2024 LCR Results

Preliminary LCR Results Comparison	NYCA IRM	Zone G-J	Zone J	Zone K
2023-2024 FBC (Tan45)	20.2%*	88.7%	78.4%	108.0%
2023-2024 Preliminary LCRs	20.2%*	85.4%**	81.7%**	105.9%
2022-2023 Final LCRs	19.6%*	89.2%	81.2%	99.5%

\* Determined by the ICS Tan45 process

\*\* The TSL Floor for Zone J and Zone G-J were binding



# Next Steps

- **Finalize the LCRs after the IRM is finalized by the NYSRC in mid-December**
  - The IRM is scheduled to be finalized by the NYSRC early December
  - Consistent with previous discussions at ICAPWG and procedural updates, NYISO will utilize the final IRM database and the NYSRC approved IRM to determine the final LCRs.
- **Present final LCRs to the NYISO Operating Committee for approval in January 2023**

# Our Mission & Vision



## Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



## Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation

# Questions?