



# Impact Analysis on Updated Emergency Assistance Limit and Operating Reserve Allocation

*- Recommendations from TSL/LCR Working Group*

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# Background

- **The TSL/LCR Working Group has identified two recommended modeling changes for the 2027-2028 installed reserve margin (IRM) study.**
  - Reduction in modeled Emergency Assistance (EA) from PJM across downstate interfaces, reflecting updated assumptions regarding the anticipated availability of emergency energy transfers into the New York Control Area.
  - Adjustment to the operating reserve requirement to reflect a higher reserve requirement in Load Zone J, in consideration of operating requirements with the addition of the Champlain Hudson Power Express (CHPE) transmission project.
- **The NYISO performed an impact assessment of these recommendations using Tan45 cases, including individual cases for each recommendation and a combined case reflecting both recommended changes. The results of this assessment are presented in this material for ICS review and discussion.**

# Recommended PJM EA Limits

- Modeled EA limits on downstate PJM interfaces were reduced by 40 percent in load forecast uncertainty (LFU) Bins 1 and 2.**
  - EA limits in lower load bins remained unchanged.
  - The reduction applies to the Neptune, HTP, VFT, and A Line interfaces.
- Modeled EA limits on upstate PJM interfaces (A, C, and G ties) remained unchanged.**

		Base Case*	Reduced PJM EA Limit
PJM Western Ties	Bin 1	580	580
	Bin 2	1110	1110
	Bin3+	1415	1415
PJM Neptune	Bin 1	90	54
	Bin 2	173	104
	Bin3+	660	660
PJM HTP	Bin 1	90	54
	Bin 2	173	104
	Bin3+	660	660
PJM VFT	Bin 1	43	26
	Bin 2	83	50
	Bin3+	315	315
PJM A Line	Bin 1	14	8
	Bin 2	28	17
	Bin3+	105	105

\*Base Case represents the assumptions from the 2026-2027 IRM study.

# Recommended Operating Reserve Allocation

- The 10-min operating reserves in Load Zone J was increased to 625 MW in line with the NYISO's revised operating reserve requirements post operation of CHPE. Total operating reserve requirements for the NYCA system remains unchanged.
  - With the recommendation, the 10-min operating reserves would be increased to 625 MW in Load Zone J and unchanged in Load Zone K. The allocation in Load Zones F and G would be proportionally decreased.
  - The 400 MW withholding (i.e., retention during load shedding) would then be modeled proportional to the updated allocation of 10-min operating reserves in each location. As a result, Load Zone J has the highest withholding value after the proposed increase to its modeled 10-min operating reserves .

	Zone	Base Case*	Updated OR Assumptions	Delta
10-min OR	F	190	156	-34
	G	500	409	-91
	J	500	625	125
	K	120	120	-
	Total	1310	1310	-
400 MW Withholding	F	58	48	-10
	G	153	125	-28
	J	153	191	38
	K	37	37	-
	Total	400	400	-
10-min OR minus 400 MW	F	132	108	-24
	G	347	284	-63
	J	347	434	87
	K	83	83	-
	Total	910	910	-

\*Base Case represents the assumptions from the 2026-2027 IRM study.

# Impact Assessment Results

- The recommended assumptions were evaluated using the 2026–2027 IRM Final Base Case (FBC) Special Sensitivity Case for comparison. Each assumption is assessed through a corresponding Tan45 simulation.
- The proposed update to the modeled EA limits of downstate PJM lines reduces the ability to rely on external assistance and increases system risk. This leads to a 0.69% increase in the Load Zone J Tan45-determined location requirement (LCR).
  - No impact to the IRM was observed, but a 0.15% increase in the Load Zone K LCR was identified.
- Updating the 10-min operating reserve allocation reduces the amount of this Emergency Operating Procedure (EOP) step available in Load Zone J and leads to a 0.4% increase in the Load Zone J LCR.
  - There is no impact on IRM as total 10-min operating reserve amount remains unchanged. A 0.15% increase in the Load Zone K LCR also occurred.
- Assessing the combined impact of updating the modeling assumptions for EA limits of downstate PJM lines and 10-minute operating reserves produced a 1% increase in the Load Zone J LCR.
  - There is also a 0.17% increase in the Load Zone K LCR. No material impact on the IRM was observed.

Case	IRM	IRM Delta	J LCR	J Delta	K LCR	K Delta
Base Case	25.6	-	79.75	-	107.50	-
Reduced PJM EA Limit	25.6	0.0	80.44	+0.69	107.65	+0.15
Updated OR Assumptions	25.6	0.0	80.15	+0.40	107.57	+0.07
Reduced EA & Updated OR	25.6	0.0	80.75	+1.00	107.67	+0.17

# Questions?

# Our Mission and 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

