

2024-2025 IRM FBC

- *Impact of Load Forecast Update*

Henry Fox & Bianca Prinsloo
Resource Adequacy

ICS Meeting # 282

November 1, 2023

Changes in Load Forecast

- From PBC to FBC the load forecast decreased by 686 MW across NYCA**
 - Upstate experiences a larger decrease compared to downstate (see Table 1)

Table 1: Delta of FBC – PBC Load Forecast

Delta													
Area	A	B	C	D	E	F	G	H	I	J	K	NYCA	G_J
NCP - Forecast	-27	-141.2	-84.5	-0.5	-107.3	-128.2	-2.8	6.9	-14	-132.4	-9.8		
CP - Forecast	-36.3	-139.5	-88.6	0.9	-104.3	-132.8	-6	4.8	-18	-157.9	-8.2	-685.9	
G-J Peak - Forecast							-3.8	5.7	-17.5	-149.9			-165.5

Load Forecast Impact - Parametric

- For the parametric run, decreasing the load by 686 MW increases the IRM by 0.93%
- Isolated impact from an individual database change is based on the at-criteria margin comparison with the previous case
 - $\text{Margin} = \frac{\text{at-criteria capacity}}{\text{peak load}}$
- Decreasing the load, increases the margin by 2.65%, before applying any capacity adjustments
- Subsequently, a parametric adjustment is applied with 544 MW capacity removed from NYCA (A-K)

Table 2: Load Forecast Margin Calculation

	Capacity	Peak Load (NYCA)	Margin
PBC-24 Fall Load Forecast	39766.21	32452	22.54%
New Load Forecast	39766.21	31766	25.18%
<i>Delta</i>	-	-686	2.65%
Capacity Adjustment	-543.971	-	-
New Load Forecast At-Criteria	39222.23	31766	23.47%
<i>Parametric Margin Delta</i>	-	-	0.93%

Load Forecast Impact - Tan45

- **NYISO also conducted a Tan45 run with the load forecast update on PBC**
 - Tan45 results show 0.25% increase to the IRM
 - The Tan45 results differ from the parametric results due to the balancing of the capacity between upstate and downstate via the Tan45 process
 - Compared to the parametric results, more MW was added to zone K and hence the Tan45 results produce a lower impact on the IRM

Table 3: Tan45 Results – Fall Load Forecast Impact

Tan45 Results			
Margin	2024 PBC (Case 6a)	Test Case Fall Load Forecast	Delta
IRM	23.043	23.295	0.25%
J LCR	72.405	72.093	-0.31%
K LCR	109.524	109.320	-0.20%

Table 4: Parametric Results - Fall Load Forecast Impact

IRM 2024 Final Base Case Parametric Results (as of 10/18/2023)						
Material Changes						
Number	Adjustment Type	Description	Impact on Margins			
			NYCA	NYC	LI	LHV
6	A-K	Fall Load Forecasts	0.93	-0.36	-1.43	-0.40

Questions