



Preliminary Base Case Parametric Study Results: Follow up on Question on Zone K Margin

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Background

IRM 2022 Preliminary Base Case Parametric Results						
Material Changes						
Number	Adjustment Type	Description	Impact on Margins			
			NYCA	NYC	LI	LHV
		IRM 2021 Final Base Case	20.7	82.6	95.1	91.9
11	A-K	2021 Gold Book Load Forecast for 2022	-0.68	-0.88	1.01	-0.92

- At the last ICS meeting (June 29), concerns were raised why the Long Island (Zone K) reserve margin increased while other margins declined when the analysis updated the 2021 Gold book load forecast for 2022.

Load Forecast Update

2022 PBC

	A	B	C	D	E	F	G	H	I	J	K	NYCA	G_J
NCP - Forecast	2799	2056.4	2847.8	692	1420	2385	2215	648	1400	11286.2	5191.6		
CP - Forecast	2644	1994.4	2781.8	676	1361	2347	2179	637	1379	11134.2	5174.6	32308	
G-J Peak - Forecast							2197	642	1390	11224.2			15453.2

2021 FBC

	A	B	C	D	E	F	G	H	I	J	K	NYCA	G_J
NCP - Forecast	2806.3	2033.8	2972.4	653.4	1465.7	2442.8	2231.9	642.6	1394.1	11232.3	5282		
CP - Forecast	2626.8	1955.2	2850.2	617.6	1398.6	2365.9	2193.6	631.1	1369	11031	5204	32243	
G-J Peak - Forecast							2216.9	637.8	1383.5	11147.1			15385.3

Delta

	A	B	C	D	E	F	G	H	I	J	K	NYCA	G_J
NCP - Forecast	-7.3	22.6	-124.6	38.6	-45.7	-57.8	-16.9	5.4	5.9	53.9	-90.4		
CP - Forecast	17.2	39.2	-68.4	58.4	-37.6	-18.9	-14.6	5.9	10	103.2	-29.4	65	
G-J Peak - Forecast							-19.9	4.2	6.5	77.1			67.9

- From the Assumptions Matrix, there is a 90.4 MW decline for the non-coincident peak (NCP) forecast for Zone K, while NYCA, Zone J and Zone G-J forecasts have all increased

Detailed Load and Capacity Values

	Parametric case prior to Load Forecast Update	Load Forecast Update Case <u>As Found</u>	Delta from Prior case	Load Forecast Update Case <u>At Criteria</u>		Delta from Prior case
Zone K Load	5282.00	5191.60	-90.40	Load Remains	5191.60	
Zone K Capacity	4994.57	4994.57		Capacity down by 33.20 MW	4961.35	
Margin	94.56%	96.20%	1.65%		95.56%	1.01%
NYCA Load	32243	32308.00	65.00	Load Remains	32308.00	
NYCA Capacity	38456.38	38530.38		Capacity down by 215.00 MW	38315.39	
Margin	119.27%	119.26%	-0.01%		118.59%	-0.68%
G-J Load	15385.3	15453.20	67.90	Load Remains	15453.20	
G-J Capacity	13991.29	13991.29		Capacity down by 25.60 MW	13910.04	
Margin	90.94%	90.54%	-0.40%		90.01%	-0.93%
Zone J Load	11232.3	11286.20	53.90	Load Remains	11286.20	
Zone J Capacity	9177.38	9177.38		Capacity down by 55.65 MW	9121.73	
Margin	81.71%	81.32%	-0.39%		80.82%	-0.88%

Insights

- When the load forecast is updated for the new Gold Book, the Zone K load declines by about 90.4 MW which causes the Zone K's reserve margin to increase about 1.56%.
- To adjust LOLE back to 0.1, the NYISO removed capacity from all zones including Zone K. This adjustment lowers Zone K's reserve margin (0.64%). But overall Zone K's reserve margin is still higher than the base case (1.01%).
- The Gold Book load forecast for Zone K declines by 90.4 MW. When the NYISO adjusts LOLE back to 0.1, it removes 33.2 MW in Zone K, which decreases Zone K's reserve margin. But the load drop has a larger impact. Therefore, the overall Zone K's reserve margin still increases.
- The Gold Book load forecast for other zones has increased. The NYISO removes capacity from all zones to adjust LOLE back to 0.1. These adjustments decrease other zones' reserve margins.

Questions?

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- 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

