

# Review of Class Average EFORd Assumption in Margin Assessments

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Ross Altman

Senior Manager, Reliability Planning

**ESPWG**

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# Background

- **The Reliability Planning Process Manual describes the derates applied to different generation classes that NYISO uses in calculating system margins, primarily in the RNA and STAR studies. For thermal units, NYISO uses the generation class averages that NERC publishes every year.**
- **This presentation provides an overview of the differences between NERC and NYCA 5-year class average EFORD values**

# NERC vs. NYCA Calculations Discussed in this Presentation

	NERC Calculation	NYCA Calculation
Period	5 years	5 years
Reporting Units	All units that report GADS data to NERC (US and Canada)	All units that report GADS data to NYISO (NYCA)
Include Outside Management Control (OMC) cause codes	Yes	Yes
Calculation	Not capacity weighted	Capacity weighted
Category	Thermal Generator Type/Fuel	Thermal Generator Type/Fuel

# Comparison of NERC vs. NYCA Unavailable Capacity (Planned Year 2025)

	NYCA (MW)			Lower Hudson Valley (MW)			New York City (MW)			Long Island (MW)		
	DMNC	MW Derate (NERC Calc) (1)	MW Derate (NYCA Calc) (1) (2)	DMNC	MW Derate (NERC Calc) (1)	MW Derate (NYCA Calc) (1) (2)	DMNC	MW Derate (NERC Calc) (1)	MW Derate (NYCA Calc) (1) (2)	DMNC	MW Derate (NERC Calc) (1)	MW Derate (NYCA Calc) (1) (2)
All Fuel Types/ST	10,863	1,075	1,171	6,721	665	725	3,839	380	414	2,396	237	258
Oil Primary/IC	21	3	3	0	0	0	0	0	0	21	3	3
Oil/Gas Primary/IC	26	3	3	11	1	1	11	1	1	15	2	2
Nuclear PWR/NP	580	11	11	0	0	0	0	0	0	0	0	0
Nuclear BWR/NB	2,724	59	59	0	0	0	0	0	0	0	0	0
Jet Engine/JE	1,531	137	145	670	60	64	602	54	57	861	77	82
Gas Turbine/GT	1,369	138	204	411	41	61	411	41	61	918	93	137
Combined Cycle/CC	10,843	440	430	4,978	202	198	3,297	134	131	612	25	24
<b>Total</b>	<b>27,957</b>	<b>1,867</b>	<b>2,026</b>	<b>12,790</b>	<b>970</b>	<b>1,048</b>	<b>8,159</b>	<b>610</b>	<b>664</b>	<b>4,822</b>	<b>436</b>	<b>505</b>

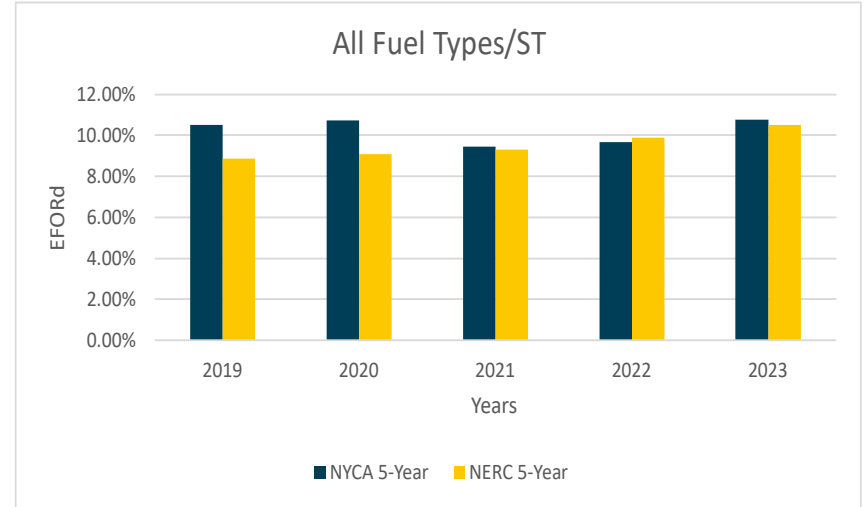
(1) Uses EFORd values published in by NERC in Aug 2023 (using 2018-2022 data)

(2) Uses EFORd values calculated from NYISO 2019-2023 data. Items shown in blue text utilize the NERC class average EFORd so as to not disclose potential confidential information

# All Fuel Types/Steam Turbine (ST)

	NYCA (MW)		
	DMNC	MW Derate (NERC Calc)	MW Derate (NYCA Calc)
All Fuel Types/ST	10,863	1,075	1,171

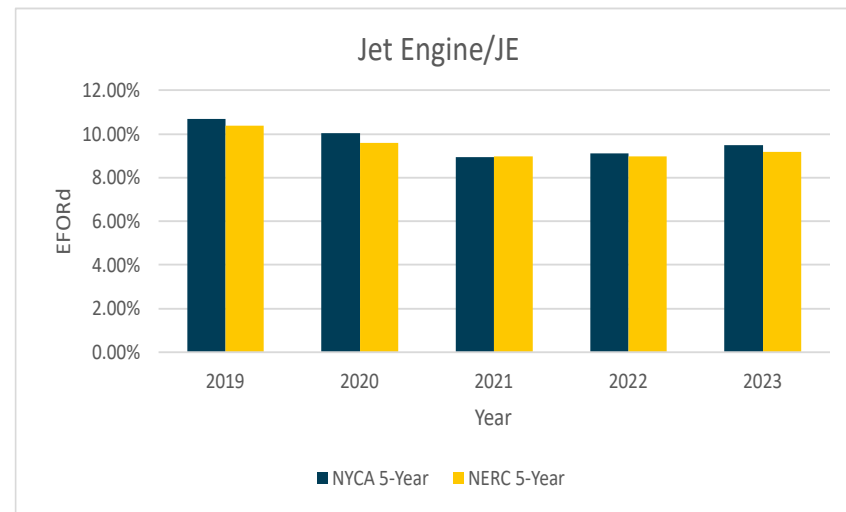
Years	All Fuel Types/ST				
	2019	2020	2021	2022	2023
NYCA 5-Year	10.50%	10.73%	9.44%	9.65%	10.78%
NERC 5-Year	8.85%	9.10%	9.31%	9.90%	10.50%



# Jet Engine/JE

	NYCA (MW)		
	DMNC	MW Derate (NERC Calc)	MW Derate (NYCA Calc)
Jet Engine/JE	1,531	137	145

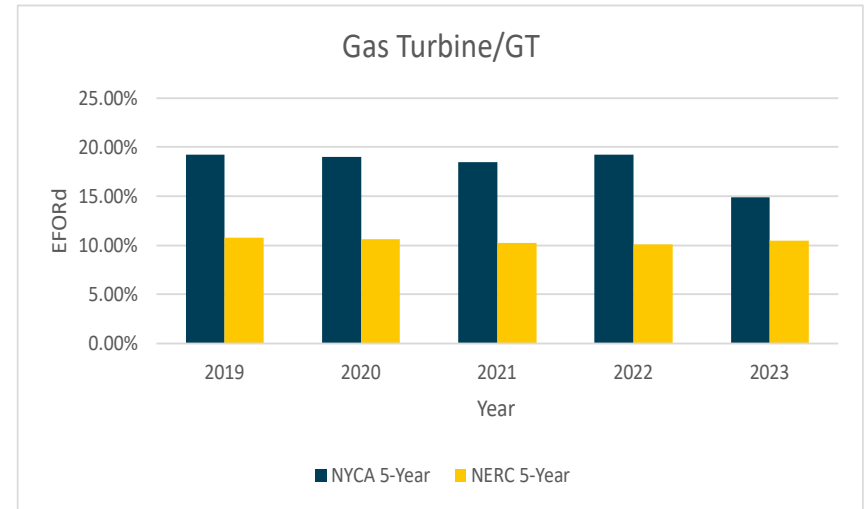
Years	Jet Engine/JE				
	2019	2020	2021	2022	2023
NYCA 5-Year	10.69%	10.03%	8.93%	9.10%	9.48%
NERC 5-Year	10.37%	9.61%	8.97%	8.96%	9.19%



# Gas Turbine/GT

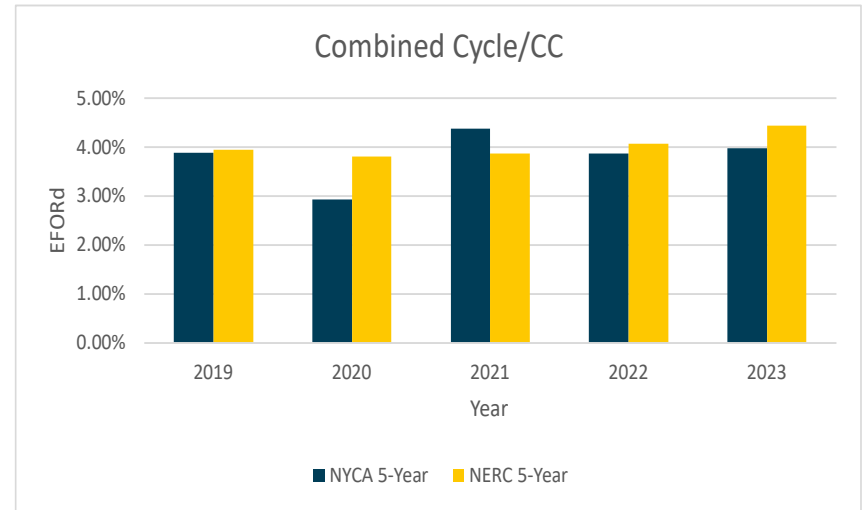
	NYCA (MW)		
	DMNC	MW Derate (NERC Calc)	MW Derate (NYCA Calc)
Gas Turbine/GT	1,369	138	204

Years	Gas Turbine/GT				
	2019	2020	2021	2022	2023
NYCA 5-Year	19.21%	19.01%	18.44%	19.21%	14.90%
NERC 5-Year	10.75%	10.60%	10.22%	10.08%	10.50%



# Combined Cycle/CC

	NYCA (MW)		
	DMNC	MW Derate (NERC Calc)	MW Derate (NYCA Calc)
Combined Cycle/CC	10,843	440	430



Years	Combined Cycle/CC				
	2019	2020	2021	2022	2023
NYCA 5-Year	3.89%	2.93%	4.37%	3.87%	3.97%
NERC 5-Year	3.94%	3.81%	3.87%	4.06%	4.43%



# 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?