Agenda Item 4.1: ICS Report to NYSRC Executive Committee (EC)
January 3, 2024, ICS Meeting #285
Prepared for: January 12, 2024 EC Meeting #297
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4.1.1 ICS Milestone Schedule

ICS reviewed the 2024 IRM milestone schedule, currently there are no changes from last year.

4.1.2 2024 Whitepaper Planning

NYISO presented their plan for prioritization of whitepaper topics in 2024:

Implementation Phase:

- Winter gas constraint modeling (separate agenda item)
- Enhanced SCR modeling (separate agenda item)

New/Other Initiatives:

- Tan45 methodology review
- Managing uncertainty (separate agenda item)
- Winter emergency assistance
- Modeling DER
- Separation of BTM-PV from load shapes
- LCRs and transmission Security interaction
- Calendar vs. capability year
- Regional correlated outages

4.1.3 SCR Modeling

With NYISO's implementation of capacity accreditation, IRM modeling of resources should be aligned with their expected capacity market performance. NYISO plans to come back to the next ICS meeting with updated testing performed on the 2024-25 FBC and a proposal for implementation.

Current Modeling: EOP, available for the entire day, limited to 5 activations per month, derated to account for performance.

Enhanced Modeling: EOP, utilizes MARS ELR functionality to represent historic max call length, output restricted until HB14, one call per day and representation of staggered response rates during the activation window (example for Zone J below):

		Hour of SCR Activation					
Zone J		1	2	3	4	5	6
July Maximum Modeled Capacity (MWs)[1]	α	310.7					
Hourly Response Rates	β	55%	61%	66%	68%	69%	66%
MWs Available	$\gamma = \alpha * \beta$	171	190	205	211	214	205

Impact: Testing was performed on the 2023-24 FBC with and without the updated EA limits which resulted in a 2.1% IRM reduction with original EA limits and a 1% IRM reduction with the updated EA limits.

4.1.4 Modeling Uncertainty

NYISO presented a conceptual discussion on how/why it is important to manage uncertainty with large expected system changes in the next few years to better align IRM assumptions with ICAP market realizations. NYISO will present a whitepaper scope at the next ICS meeting. Some concern was voiced as to the priority and need of this topic by ICS members.

4.1.5 Gas Constraint Modeling

Potomac Economics (NYISO MMU) presented an analysis highlighting the concerns and issues with gas availability in the northeast during peak winter conditions to help ICS members have a better understanding of the importance of modeling winter gas limitations. NYISO followed by presenting an update on the gas constraint whitepaper, scheduled for completion in Q1 2024, with the following preliminary recommendation:

Tier	NYCA Load Conditions	Available Gas	Available Oil	Total Available Fuel (Gas + Oil)
1	>26,000	0 MW	11,000 MW	11,000 MW
2	25,000 - 26,000	750 MW		11,750 MW
3	24,000 - 25,000	2,750 MW		13,750 MW
4	23,000 - 24,000	4,500 MW		15,500 MW
5	22,000 - 23,000	5,500 MW		16,500 MW
6	<22,000	No Constraint		No Constraint

The proposal is to limit gas unit availability based on load level with 0 MW of gas generation assumed to be available when NYCA load is > 26,000 MW.