

Tan45 Methodology Review

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Agenda

- **Background**
- **Future Supply Mix Allocation Options**
- **Next Steps**

Background

Background

- **The NYISO presented a proposed testing plan for the Tan45 Methodology Review Whitepaper at the 2/27/2024 ICS meeting**
 - **Tan45 Methodology Review:**
<https://www.nysrc.org/wp-content/uploads/2024/02/Tan45-Methodology-Review-02272024-ICS28519.pdf>
- **The proposed testing plan outlined several future scenario cases for evaluation (see slide 5 for a summary of proposed test cases)**
 - These future scenarios include adding expected future transmission projects and supply mix changes to the 2024-2025 IRM study Final Base Case (FBC)
 - The future transmission projects proposed for consideration include implementing Champlain Hudson Power Express (CHPE), Long Island Public Policy Transmission Need (LI PPTN), and Clean Path New York (CPNY) in the model
 - The future supply mix changes proposed for consideration include adding 9,000 MW each of in-front-of-the-meter (FTM) solar, land-based wind (LBW) and off-shore wind (OSW) to the model
- **The NYISO is beginning to create the future scenario cases and is soliciting feedback regarding options of implementing the future supply mix changes**

Tan45 Review – Summary of Test Cases

Test Case Name	System Scenario	Description
BC	Base Case	2024 – 2025 IRM Final Base Case (23.1% IRM)
TC-T1	Future Transmission Projects	Base Case + CHPE
TC-T2		Base Case + LI PPTN
TC-T3		Base Case + CPNY
TC-T4		Base Case + CHPE, LI PPTN, and CPNY
TC-G1	Increased Renewable Generation Resources	Base Case + 9,000 MW FTM Solar
TC-G2		Base Case + 9,000 MW LBW
TC-G3		Base Case + 9,000 MW OSW
TC-G4		Base Case + 27,000 MW FTM Solar, LBW, and OSW (9,000 MW of each type)
TC-TG5	Future Transmission Projects + Increased Renewable Generation Resources	Base Case + CHPE, LI PPTN, and CPNY + 27,000 MW FTM Solar, LBW, and OSW (9,000 MW of each type)

Future Supply Mix Allocation Options

Supply Mix Allocation Options

- As outlined on slide 5, several proposed test cases include the addition of incremental FTM Solar, LBW, and/or OSW resources to the model
- The NYISO is soliciting feedback on how to allocate the resources to each zone in the model and has identified two options below
- **Option 1:**
 - Utilize the same allocation used in the High Renewable Phase 3 whitepaper ([Link to Report](#))
- **Option 2:**
 - Allocate the resources utilizing information from the NYISO Interconnection Queue
 - The interconnection queue tracks the progress of new/proposed resource projects
 - This can be informative for assessing where future projects may locate
- Are there other potential options that should be explored?

Allocation Options Comparison

Zone	FTM Solar		LBW		OSW	
	Option 1	Option 2	Option 1	Option 2*	Option 1	Option 2
A	2,632.9	1,198.8	2,345.1	2,870.8		
B	300.0	1,576.5	322.1	515.9		
C	1,642.6	2,987.4	2,473.4	2,579.5		
D		599.8	1,807.6	1,926.4		
E	1,037.8	1,064.4	2,051.8	1,107.4		
F	2,133.9	1,290.4				
G	1,207.1	247.1				
H						
I						
J					6,000.0	2,606.1
K	45.7	35.6			3,000.0	6,393.9
Total	9,000.0	9,000.0	9,000.0	9,000.0	9,000.0	9,000.0

* The interconnection queue contains ~3,500 MW of proposed LBW projects, so a zonal ratio was used to scale up to the 9,000 MW target

Next Steps

Next Steps

- The NYISO will refine the future scenario supply mix test cases based on ICS feedback and anticipates returning to the 5/1/2024 ICS meeting to present certain preliminary Tan45 results
- The NYISO also anticipates discussing further details regarding the modeling of the future transmission projects scenarios at the 5/1/2024 ICS

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Working together with stakeholders to build the cleanest, most reliable electric system in the nation

Questions?