

**Agenda Item 4.1: ICS Report to NYSRC Executive Committee (EC)**  
**June 5, 2024, ICS Meeting #290**  
**Prepared for: June 14, 2024 EC Meeting #302**  
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**4.1.1 Action Items List – DER Modeling Whitepaper**

The action item list includes a DER modeling whitepaper due this month. At the prior meeting on 5/1, ICS accepted the NYISO recommendation to defer DER modeling to the next IRM cycle. NYISO developed a set of modeling principles, but the wide range of possible aggregations, lack of operational data, and uncertain DER enrollments drove the decision to defer. Initial indications of SCR resources electing DER participation will be available on 7/1 and final elections will be available on 8/1. ICS can reassess the best modeling approach after elections are made; moreover, the resources most likely to switch from SCR to DER are not the difficult mixed types.

**4.1.2 Gas Constraints Whitepaper**

ICS reviewed the whitepaper document without any major issues thanks to the EC's expedient guidance to keep gas constraints as a sensitivity this year. The whitepaper is consistent with prior presentations to the EC on winter gas constraints. There was a suggestion to rename "available oil" to "available firm fuel", but NYISO recommended keeping the original terminology because it represents what was studied and not all oil may meet the definition of firm, which is still being defined in the ICAP-WG. ICS approved the whitepaper (attached) and request EC approval. NYISO will address remaining issues around firm fuel elections in a Phase 2 study to be completed before the PBC next year.

**4.1.3 Tan 45 Methodology Review**

NYISO presented several Tan 45 curves for CHPE + OSW including kinks in some cases. Notably, the Tan 45 points are not at the kink despite looking so visually because of the axis scaling. With the addition of OSW downstate, curves are generally steeper for the first few Tan 45 points and flatter thereafter. IRMs and LCRs are higher due to the higher derating factor for OSW resources compared to current thermal ones. ICS provided guidance on additional cases that NYISO should prioritize including CHPE + LI PPTN + 9 GW OSW and the combination of all renewables and transmission projects. Some guiding principles include:

- Tx upgrades without renewables are less meaningful.
- CHPE is sufficiently certain to combine with other transmission projects.
- Focus on cases that will have a material effect.

Prior results pointed to Tan 45 challenges with 9 GW OSW, and an open question is whether addition of CHPE and the LI PPTN help in reaching a Tan 45 point. There was a request to update transition matrices as part of the LI PPTN case.

**4.1.4 Alternative Load Shape Adjustment**

NYISO presented details behind the alternative load shape methodology, which is currently used in the NYISO RNA. The method allows for adjusting the load shape to match forecasted seasonal peaks and annual energy usage. Mark Younger raised concerns that the methodology has not gone through extensive stakeholder review and requested to review it step-by-step and see it applied to multiple years. Key concerns include not representing near peak hour risk due to adjusting the peak hours too disproportionately and distorting shapes that were purposely chosen. For example, 2018 was a high energy year and it is difficult to represent a year that is not a high requirement year starting from this shape. The alternative load shape methodology will not be included in this year's base case and is an improvement over the current process. As NYISO could not proceed with efforts to explicitly model BTM

solar as a supply resource without a suitable load method, ICS approved use of the alternative load shape adjustment method for this purpose.

#### **4.1.5 New Generator Inclusion Screening**

ICS approved inclusion of 3 projects that met the guidelines.

#### **4.1.6 Assumptions Matrix**

There were several changes this month including updates from the most recent Gold Book. The section on winter gas constraints was removed as it will be treated as a sensitivity. NYISO will provide the updated topology at the next meeting after doing due diligence.

#### **4.1.7 Parametric Results**

In aggregate, the changes thus far have not resulted in a large adjustment to the IRM or LCRs. The addition of the new generators approved in this meeting will have a material impact and NYISO does not expect other remaining changes to have a large impact. NYISO anticipates having the remaining parameters by the next ICS meeting but may not have the completed Tan 45 with all updated assumptions.

#### **4.1.8 Policy 5 Changes**

ICS approved the Policy 5 changes which had previously been reviewed by ICS and EC and request EC approval at this time per the IRM Study Milestone Schedule.

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