

### **High Intermittent Renewable Resource Analysis – Phase 3 Scope- Abridged**

The NYISO recommends that the Phase 3 of the High Intermittent Renewable Resource Analysis consist of segments.

1. Take the New York electric system as assumed in the NYSRC 2022 IRM Study Final Base Case (“FBC”) and increase renewable capacity by a hypothetical 27,000 MW (9,000 each of front-of-meter (FTM, or utility scale solar PV), onshore wind, and offshore wind).
  - a. The locations of Installed Capacity (“ICAP”) placement for both FTM PV and onshore wind units will be based on the projections of wind and solar installation represented in the 70x30 renewable mix assumptions for the NYISO 2021-2030 Comprehensive Reliability Plan Appendices.<sup>1</sup> These projections will be scaled on a zonal basis to the requisite 9,000 MW for each resource type. The placements of offshore wind capacity will be split evenly between Zones J and K.
2. Take the case above (the 2022 FBC + 27,000 MW renewable capacity) and increase energy storage resources (“ESR”) by a hypothetical 3,000 MW.
3. Take the case above (the 2022 FBC + 27,000 MW renewable capacity + 3,000 MW ESR capacity) and retire the units that will be unavailable starting in the summers of 2025 due to the New York State Department of Environmental Conservation’s regulation to limit nitrogen oxides emissions, also known as the “Peaker Rule<sup>2</sup>”.
  - a. The units retired will be based on DEC Peaker Rules Assumptions as represented in the NYISO 2021 Q4 Short-Term Assessment of Reliability<sup>3</sup> (~1,600 MW)
  - b. The impacts of additional unit retirements together with high intermittent generation may be addressed in future phases.

Each of these analyses will assume no transmission congestion in order to evaluate the impact of the resources themselves and not any potential transmission congestion.

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<sup>1</sup> <https://www.nyiso.com/documents/20142/26735166/2021-2030-Comprehensive-Reliability-Plan-Appendices.pdf/3cac252d-7eee-87e7-441c-f039c7730fcf>

<sup>2</sup> <https://www.dec.ny.gov/regulations/116131.html>

<sup>3</sup> <https://www.nyiso.com/documents/20142/25620932/03%202021%20Q4%20STAR%20Key%20Study%20Assumptions.pdf>