Updates on NYISO’s Comprehensive System Planning Process

Ross Altman
Manager, Public Policy and Interregional Planning, NYISO

Interregional Planning Stakeholder Advisory Committee (IPSAC) Meeting

May 23, 2022
NYISO Comprehensive System Planning Process (CSPP)

- Reliability Planning Process
  - Conduct the Reliability Needs Assessment
  - Identify Reliability Needs
  - Solicit solutions to meet the Reliability Needs
  - Assess Transmission & Non-Transmission Viability & Sufficiency
    - Evaluate & select the project to meet the Reliability Need
    - Compile Comprehensive Reliability Plan

- Economic Planning Process
  - Develop the System & Resource Outlook
  - Identify transmission expansion opportunities
  - Solicit solutions to meet the Economic Transmission Project

- Public Policy Transmission Planning Process
  - Request Stakeholder Comments
  - PSC considers comments
  - PSC identifies Public Policy Transmission Need

- Quarterly Short-Term Assessment of Reliability
  - Solicit solutions to meet the Public Policy Transmission Need
  - Assess Transmission & Non-Transmission Viability & Sufficiency
  - Evaluate & select a transmission project to meet the Public Policy Transmission Need
  - Beneficiaries vote

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Reliability Planning Process (RPP)
Reliability Planning Process

- Two-year process starting in even years
- Reliability Needs Assessment (RNA)
  - Evaluates the adequacy and security of the Bulk Power Transmission Facilities (BPTF) over a seven-year Study Period (years four through ten of the next ten years), and identifies Reliability Needs
  - Reliability Needs are defined as violations of Reliability Criteria (i.e., NERC, NPCC and NYSRC) on the BPTFs
  - Identifies risks to the plan, and includes scenarios simulated for informing the risks
- Comprehensive Reliability Plan (CRP)
  - Develops a plan to satisfy the Reliability Needs identified in RNA, if any
  - Identifies risks to the plan, and could include additional scenarios simulated for informing the risks
2022 RNA Key Findings

- The 2022 RNA concluded that the New York State Bulk Power Transmission Facilities as planned will meet all currently applicable reliability criteria from 2026 through 2032 for the assumed future system demand and with the assumed planned projects meeting their proposed in-service dates.

- While the RNA did not identify any long-term actionable Reliability Needs, the resource adequacy and transmission security margins are tightening across the New York grid through time.
  - New York will likely experience even smaller margins if additional power plants become unavailable or if demand is greater than forecasted
  - If the margins are totally depleted, the risk of a reliability violation is increased
  - The margins for transmission security are narrower than the margins for resource adequacy

- Additional risk factors beyond the assumptions in the 2022 RNA (e.g., climate, economic, regulatory, and policy drivers) may accelerate the narrowing or depletion of these reliability margins.
  - Extreme conditions like heat waves could result in deficiencies to serve demand statewide and transmission security deficiencies in New York City

- Final report can be found [here](#) and appendices found [here](#)
2023-2032 Comprehensive Reliability Plan

- While there was no Reliability Need identified in the 2022 RNA, the 2023-2032 CRP will continue to build on the scenarios and topics from the 2022 RNA under key topics such as [link]:
  - Gas shortage/Constraints during winter cold snaps
  - Extreme weather
  - Integration of large load scenarios
  - Near-term reliability risks

- Anticipated completion by Q4 of 2023
Generator Status Update
### Generator Status Update

**Generator Status Updates from March 15, 2022 through April 1, 2023**

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Status of generators is reviewed and updated on a monthly basis:
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Local Transmission Owner Plans (LTP)
Local Transmission Owner Plans (LTP)

- The NYISO's Comprehensive System Planning Process (CSPP) begins with the Local Transmission Owner Planning Process (LTPP). The LTPP allows interested parties to examine the transmission system plans of each of the New York Transmission Owners individually.

- Local Transmission Owner Planning Process (LTPP) link:

- 2023 Load and Capacity Data Report (Gold Book) containing BPTF LTPs and firm non-BPTF LTPs (Section VII)
  - 2023 Gold Book
Short-Term Reliability Process (STRP)
Short-Term Reliability Process (STRP)

- The STRP uses quarterly Short-Term Assessments of Reliability (STAR) studies to assess the reliability impacts of generator deactivations on both BPTF and non-BPTF transmission facilities, in coordination with the responsible transmission owner(s).

- The STAR is also used by the NYISO, in coordination with the responsible transmission owner(s), to assess the reliability impacts of other system changes on the BPTF.

- Each STAR assesses a five-year period with a particular focus on needs that are expected to arise in the first three years of the study period.
  - Needs that arise in years four or five may be addressed in the STRP or RPP.

Short-Term Reliability Process (STRP)

- 2023 Quarter 1 STAR
  - The assessment did not identify any Short-Term Reliability Needs
  - The report is available at [link]

- 2023 Quarter 2 STAR
  - Study period April 15, 2023 - April 15, 2028
  - Study Assumptions can be found at [link]
  - Anticipated completion by July 14, 2023
Economic Planning Process (EPP)
Economic Planning Process

- **System & Resource Outlook (“The Outlook”)**
  - Performed in alternate years to the RNA
  - 20-year study of system and congestion
  - Identifies, ranks, and groups congested elements
  - Assesses the potential benefits of addressing the identified congestion
  - Provides information to developers and marketplace regarding future challenges in the New York power system

- **Economic Transmission Project Evaluation (ETPE)**
  - Evaluation by the ISO of a Regulated Economic Transmission Project (RETP)
    - Transmission projects seeking regulated cost recovery under NYISO Tariff
    - Eligibility threshold: Cost over $25M, benefit/cost ratio over 1.0, load payment savings over cost, 80% beneficiary vote

- **Requested Economic Planning Study (REPS)**
  - Study performed solely for informational purposes by the ISO at the request of a stakeholder or other interested party at their expense
    - Assumptions and scenarios customizable
    - Confidential except for posting of limited information about the study request
2021-2040 System & Resource Outlook

Key Findings:

- The pace of renewable project development is unprecedented and requires an increase in the pace of transmission development.
- Significant new resource development (at least 95 GW by 2040) will be required to achieve CLCPA energy targets. Coordination of project additions and retirements is essential to maintaining reliability and achieving policy.
- To achieve an emission-free grid, dispatchable emission-free resources (DEFRs) must be developed and deployed throughout New York.
- As the energy policies in neighboring regions evolve, New York’s imports and exports of energy could vary significantly due to the resulting changes in neighboring grids.
- Transmission limitations prevent full delivery of renewable energy. Transmission expansion is critical to facilitating efficient CLCPA energy target achievement, particularly in the Finger Lakes, Southern Tier, Watertown, and Long Island pockets.

- Study summary can be found [here](#) and the full report can be found [here](#)
- NYISO will begin stakeholder discussions for 2023-2042 System & Resource Outlook
2021-2040 System & Resource Outlook:
Renewable Generation Pocket Map

Thresholds
Average of 2030 and 2035 curtailment levels

- >= 10%
- >= 5% & < 10%
- < 5%

Pocket Curtailment Risks
- High
- Medium
- Low
Public Policy Transmission Planning Process (PPTPP)
Public Policy Transmission Planning Process (PPTPP)

- Two-year process performed in parallel with RNA/CRP
- Phase I: Identify Needs and Assess Solutions
  - NYISO solicits transmission needs driven by Public Policy Requirements
  - PSC identifies transmission needs and defines additional evaluation criteria
  - NYISO holds Technical Conference and solicits solutions (transmission, generation, or EE/DR)
  - NYISO performs Viability and Sufficiency Assessment (VSA)
- Phase II: Transmission Evaluation and Selection
  - NYISO staff evaluates viable and sufficient transmission solutions and recommends the more efficient or cost-effective solution
  - Stakeholder review and advisory votes at BIC and MC
  - NYISO Board may select a transmission solution for purposes of cost allocation and recovery under the NYISO Tariff
“The CLCPA constitutes a Public Policy Requirement driving the need for:

- Adding at least one bulk transmission intertie cable to increase the export capability of the LIPA-Con Edison interface, that connects NYISO’s Zone K to Zones I and J to ensure the full output from at least 3,000 MW of offshore wind is deliverable from Long Island to the rest of the State; and
- Upgrading associated local transmission facilities to accompany the expansion of the proposed offshore export capability.
- Ensure no transmission security violations, thermal, voltage or stability, would result under normal and emergency operating conditions”
Long Island Offshore Wind Export Update

- 19 projects were proposed by four Developers
- NYISO completed Viability & Sufficiency Assessment and identified 16 Public Policy Transmission Projects that are Viable and Sufficient [report link]
- NYISO has discussed results with stakeholders and anticipates completing the evaluation in first half of 2023
Interregional Coordination

- Through the NYISO’s Transmission Interconnection Procedures, the NYISO also coordinates with neighboring regions to identify the impact, if any, of the Public Policy Transmission Projects on the neighboring regions.

  - Facility Studies have been completed for the selected Western NY and AC Transmission projects, including identification of the upgrades to address New York-New England transfer degradation caused by Segment B project.

  - System Impact Studies are underway for the LI PPTN transmission projects.
Stakeholder Material

- The NYISO Comprehensive System Planning Process is regularly discussed at the Electric System Planning Working Group (ESPWG) and Transmission Planning Planning Advisory Subcommittee (TPAS).
  - [https://www.nyiso.com/espwg](https://www.nyiso.com/espwg)
  - [https://www.nyiso.com/tpas](https://www.nyiso.com/tpas)

- Study documentation is available at:
  - [https://www.nyiso.com/cspp](https://www.nyiso.com/cspp)
Questions?
Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system