

Updates on NYISO's Comprehensive System Planning Process

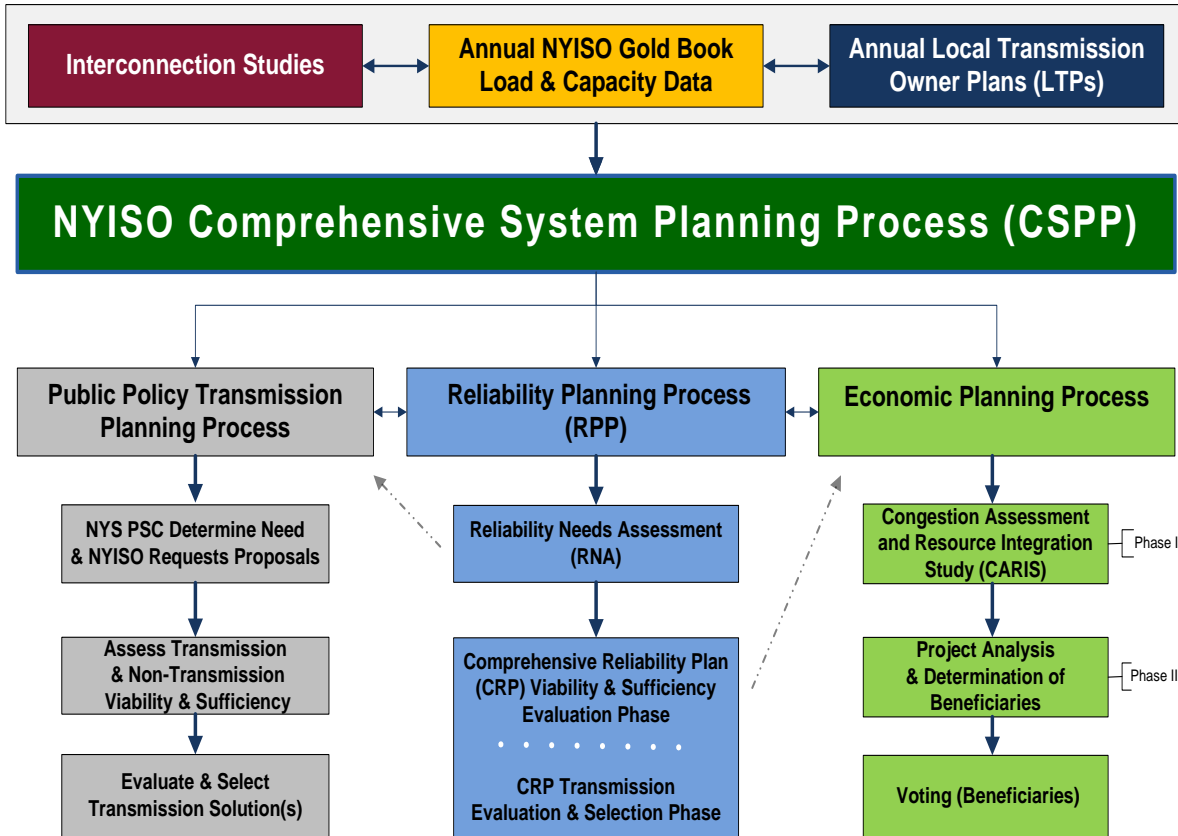
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Interregional Planning Stakeholder Advisory Committee
(IPSAC) Meeting

May 18, 2018





Reliability Planning Process

- Two-year process starting in even years
- Reliability Needs Assessment (RNA)
 - Evaluates the adequacy and security of the bulk power system over a ten-year study period, and identifies Reliability Needs
- Comprehensive Reliability Plan (CRP)
 - Develops a comprehensive plan to satisfy the reliability needs identified in RNA

Status of Reliability Planning Process

- Under the conditions studied in the 2016 RNA, the New York State Bulk Power Transmission Facilities meets all applicable Reliability Criteria over the 2017-2026 study period. Final report posted at below link:

http://www.nyiso.com/public/webdocs/markets_operations/services/planning/Planning_Studies/Reliability_Planning_Studies/Reliability_Assessment_Documents/2016CRP_Report_Final_Apr11_2017.pdf

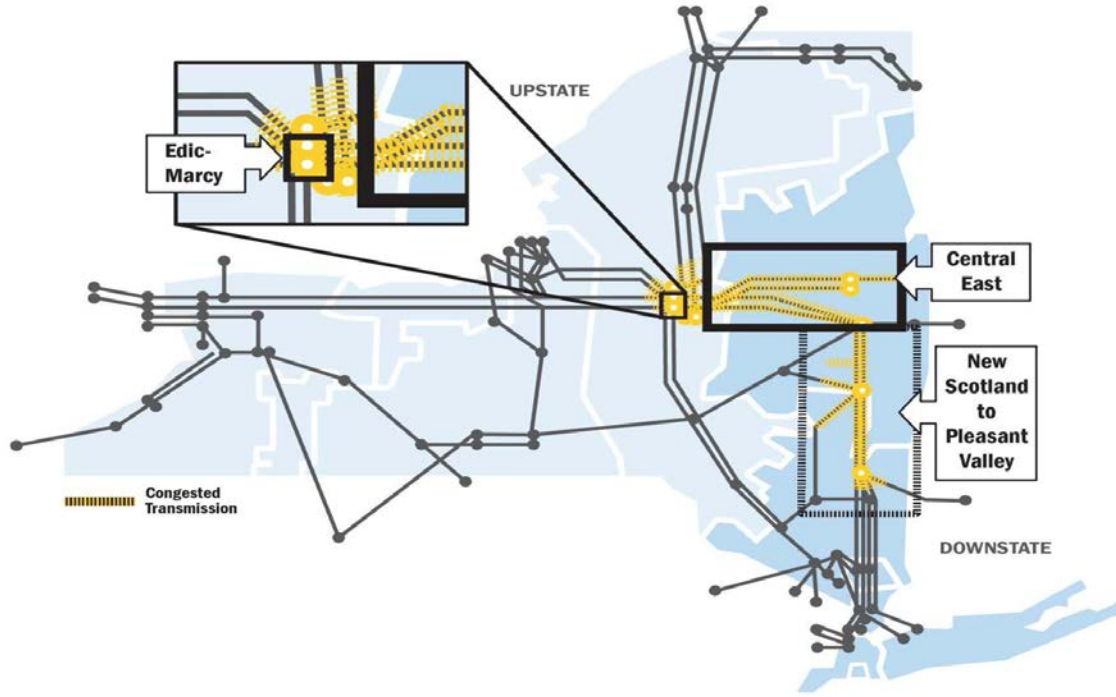
- The NYISO is currently working on the 2018 RNA. The schedule was presented and available at below link:

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_espwg/meeting_materials/2018-03-13/2018RNA_UpdSchedule.pdf

Economic Planning Process

- **Two-year process: Congestion Assessment and Resource Integration Study (CARIS)**
 - **Phase I: Study Phase**
 - Performed in alternate years to the RNA
 - Determine top congested locations in NYCA
 - Develop generic solutions – transmission, generation, demand response, and energy efficiency
 - Provide information to developers and marketplace
 - **Phase II:**
 - **Specific Projects**
 - Transmission projects seeking regulated cost recovery under NYISO Tariff
 - Eligibility threshold: Cost over \$25M, B/C ratio over 1.0, load payment saving over cost, 80% beneficiary vote
 - **Additional CARIS Studies**
 - Assumptions and scenarios customizable
 - Confidential except for basic information

2017 CARIS: Congestion Groupings



Status of CARIS

- **The 2017 CARIS Phase 1 Report**

- Presented at the March 28, 2018 MC

- http://www.nyiso.com/public/webdocs/markets_operations/committees/mc/meeting_materials/2018-03-28/05_CARIS2017_Report.pdf

- Approved by the NYISO Board on April 17, 2018

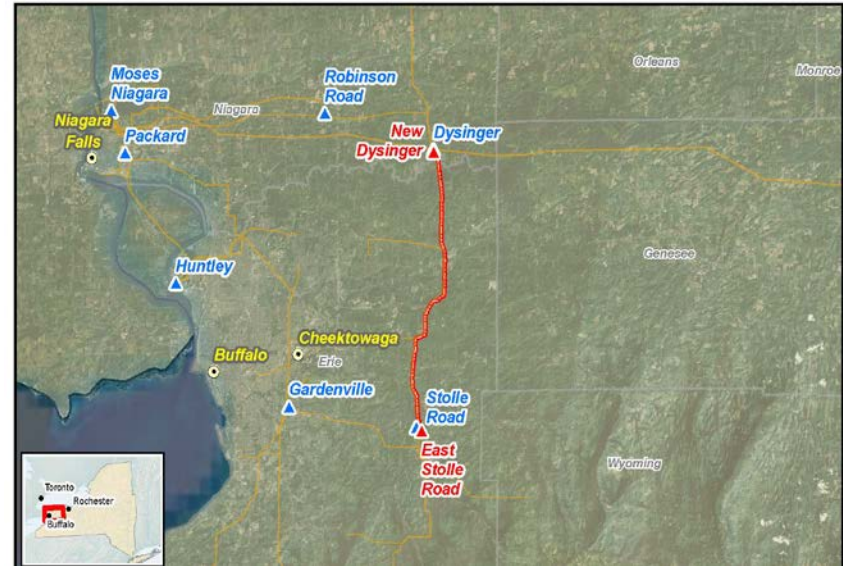
- **The NYISO is currently working on 2018 CARIS Phase 2.**

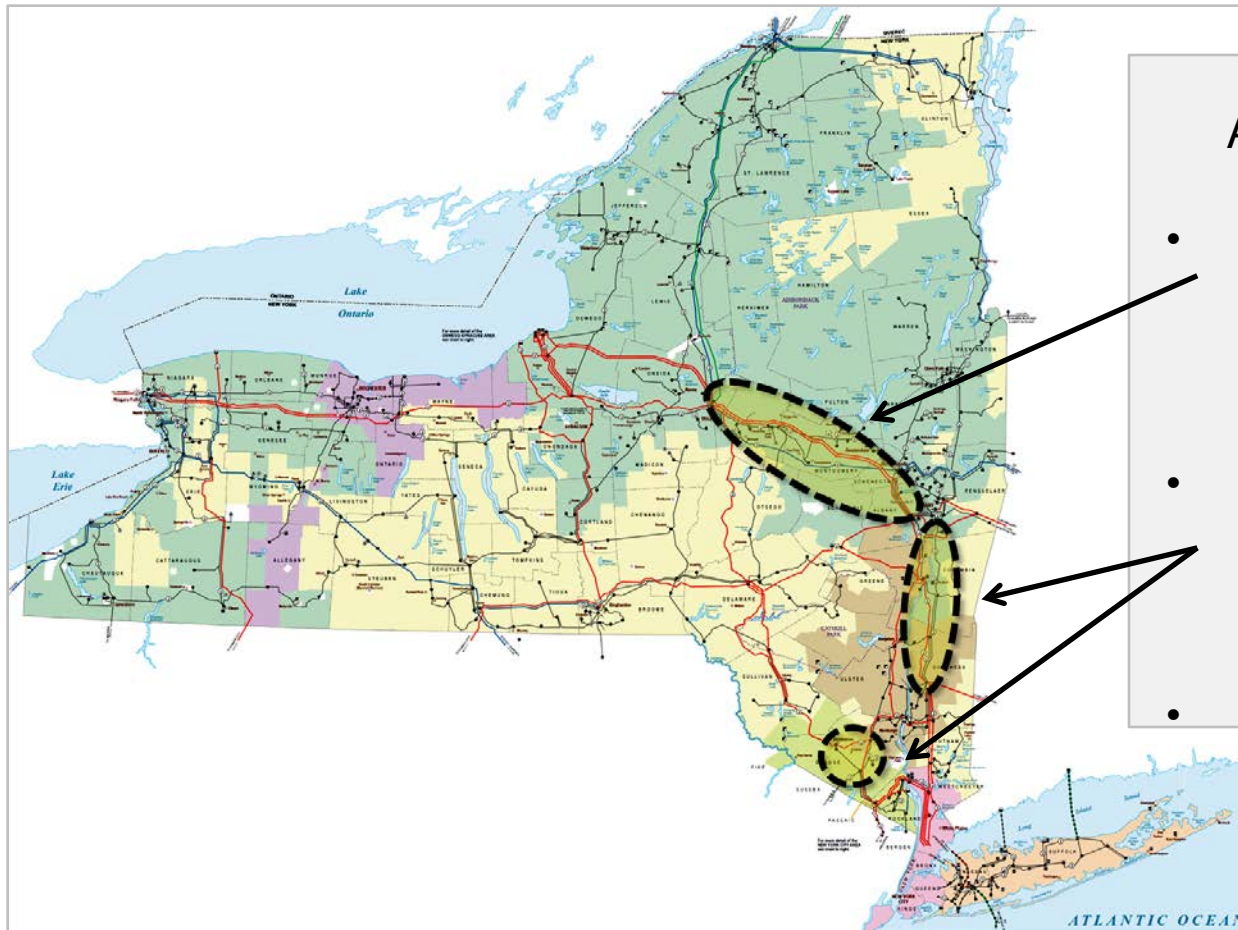
Public Policy Transmission Planning

- 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 solicits solutions (transmission, generation, or EE/DR)
 - NYISO performs Viability and Sufficiency Assessment (VSA)
 - PSC reviews assessment and confirms continued transmission need
- 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

Western NY Project Selection

- NYISO staff recommended Empire State Line Proposal 1 (T014), proposed by NextEra Energy Transmission New York, as the more efficient and cost effective solution.
- In October 2017, the NYISO Board of Directors selected the NextEra project.
- Final Western NY report is posted at: http://www.nyiso.com/public/markets_operations/services/planning/planning_studies/index.jsp





AC TRANSMISSION PPTN

- **Segment A (Central East)**
 - New Edic/Marcy to New Scotland 345 kV line
 - Decommission Porter to Rotterdam 230 kV lines
 - 230/345 kV connection to Rotterdam
- **Segment B (UPNY/SENY)**
 - New Knickerbocker to Pleasant Valley 345 kV line
 - Rock Tavern substation terminal upgrades
 - Shoemaker – Sugarloaf 138 kV line
- *See PSC Order for full description*

Status of AC Transmission PPTN

- The NYISO staff and its independent consultant are currently evaluating 13 viable and sufficient projects to recommend the more efficient or cost effective project.
- ◆ The NYISO posted the draft SECO report and preliminary evaluation results at below link:
http://www.nyiso.com/public/markets_operations/services/planning/planning_studies/index.jsp

Future Public Policy Transmission Need

- ◆ Currently still in the 2016-2017 Public Policy Transmission Planning Process (PPTPP) cycle. The PSC issued an order on March 16, 2018 declining to identify Public Policy Transmission Need for this cycle.
- ◆ The NYISO will initiate the 2018-2019 PPTPP cycle in August 2018 by issuing solicitation for proposed transmission needs driven by Public Policy Requirements.

Stakeholder Material

- The NYISO Comprehensive System Planning Process is regularly discussed at the Electric System Planning Working Group (ESPWG):
 - http://www.nyiso.com/public/markets_operations/committees/meeting_materials/index.jsp?com=bic_espwg
- Study documentation is available at:
 - http://www.nyiso.com/public/markets_operations/services/planning/planning_studies/index.jsp

The Mission of the New York Independent System Operator, in collaboration with its 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 policy makers, stakeholders and investors in the power system



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