New York ISO
Independent System Operator

Technical Conference

New York City Public Policy Transmission Need

NYISO Conference Center & WebEx
Rensselaer, NY

November 6, 2023

Presenters

- **Yachi (“Chi”) Lin**
  - Director, System Planning
- **Jason Frasier**
  - Senior Manager, Transmission Planning
- **Supriya Tawde**
  - Manager, Transmission Integration

New York ISO

Purpose

- Review assumptions for the Viability & Sufficiency Assessment with Developers and interested parties and obtain feedback for soliciting solutions to the NYC PPTN
- Review NYISO's evaluation and selection metrics and obtain input on the application of those metrics

New York ISO

Disclaimer

- This presentation and associated technical conference is for the purposes of reviewing assumptions and methodologies applicable to the New York City Public Policy Transmission Need (NYC PPTN) and reviewing and obtaining input on the application of metrics set forth in the NYISO OATT. The materials are intended for discussions in this technical conference and are subject to revision. In the event that information provided herein or at the technical conference conflicts with the NYISO OATT or the solicitation letter, Developers should rely on the PSC Order, the NYISO tariff, and solicitation letter in submitting their proposals.

New York ISO

Agenda

- Public Policy Transmission Planning Process
- Highlights of the NYC PPTN Order
- Schedule
- Information & Resources for Developers
- VSA Baseline Case Assumptions
- Viability Assessment
- Sufficiency Criteria
- Sufficiency Assessment
- Developer Qualification Process
- Application Process
- Capital Cost Estimates
- Facility Characterization
- Project Evaluation
- Next Steps
- Questions?

New York ISO

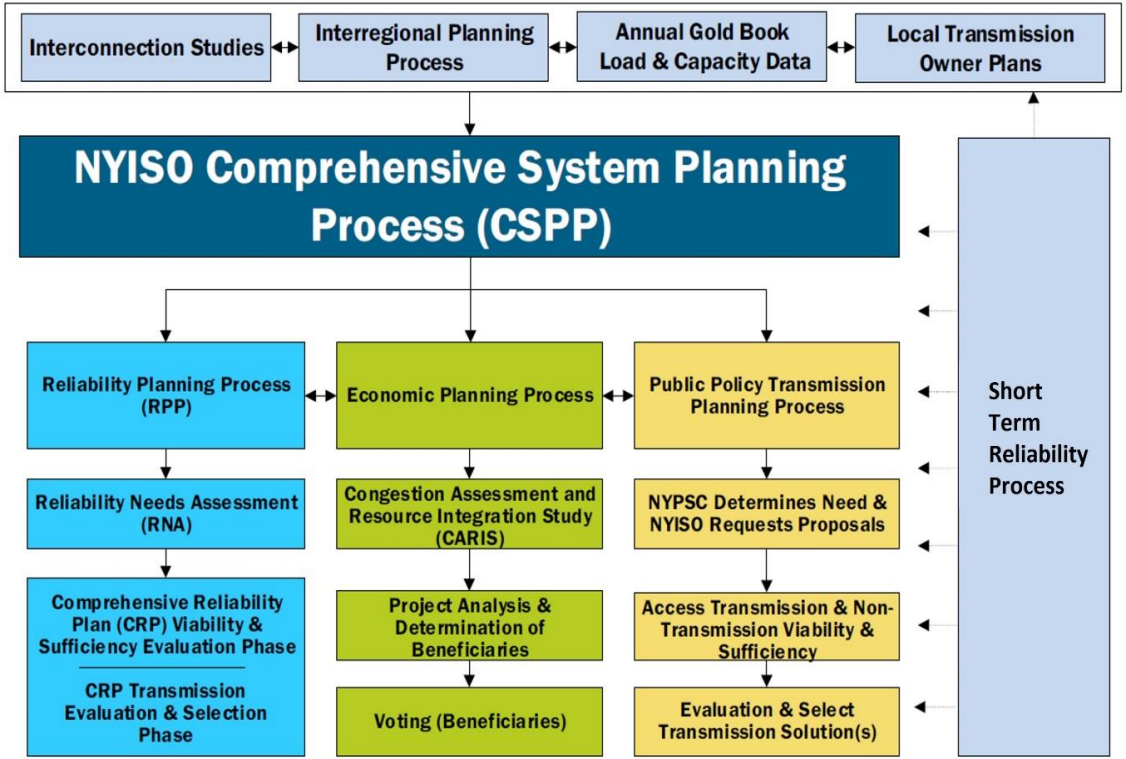
Q&A Ground Rules

- Please let presenter finish each section prior to asking questions. A question and feedback pause point is built into each section
- Meeting host will manage a queue for questions/comments
  - In-person – raise hand until host acknowledges
  - WebEx – leverage "raise hand" feature and host will call
- Please review the NYISO FAQ document posted with today's material, as your question may have a written response already prepared
- The NYISO may need to "take back" questions that require more research and confirmation before answering
  - The NYISO FAQ document will be supplemented as necessary
  - The NYISO will also have an opportunity to provide answers at the NYISO technical conference scheduled for December 7, 2023, as well as upcoming ESPWG meetings

New York ISO

Public Policy Transmission Planning Process

Comprehensive System Planning Process



New York ISO

Public Policy Transmission Planning Process

- **The Public Policy Transmission Planning Process consists of four main steps:**
  - Identification of a Public Policy Transmission Need
  - NYISO's solicitation for solutions
  - Submission of proposed solutions to identified Public Policy Transmission Needs
  - Evaluation of the viability and sufficiency of submitted Public Policy Transmission Projects and Other Public Policy Projects to a Public Policy Transmission Need, and
    - An "Other Public Policy Project" is a non-transmission project or a portfolio of transmission and non-transmission projects proposed
  - Evaluation and selection of the more efficient or cost-effective Public Policy Transmission Project, if any, to satisfy the identified Public Policy Transmission Need

New York ISO

Public Policy Transmission Planning Process

- **Solution Solicitation:**
  - NYISO holds technical conference(s)
  - NYISO solicits solutions to Public Policy Transmission Needs
    - Developers submit qualification information if not yet qualified
  - Qualified developers submit proposed Public Policy Transmission Projects and other developers submit Other Public Policy Projects

New York ISO

Solicitation for Solutions

- The NYISO will post a letter to its website soliciting the proposal of Public Policy Transmission Projects and Other Public Policy Projects to satisfy the PPTN
- The solicitation window will remain open for a period of 60 days
- Any updates on anticipated schedule will be communicated to stakeholders at Electric System Planning Working Group (ESPWG)/ Transmission Planning Advisory Subcommittee (TPAS) meetings

New York ISO

Viability & Sufficiency Assessment (VSA)

- The NYISO conducts a Viability & Sufficiency Assessment to determine whether each Developer-submitted proposal is complete, viable, and sufficient to satisfy the identified need
- The primary objective of the Viability & Sufficiency Assessment is to confirm that a solution satisfies the viability requirements set forth in the OATT and the sufficiency requirements prescribed in the PSC Order (Appendix A)

New York ISO

Viability & Sufficiency Assessment (VSA)

- The NYISO will reject from further consideration during that planning cycle proposals not deemed viable or sufficient
- The NYISO will present the Viability & Sufficiency Assessment to stakeholders, interested parties, and the NYSDPS for comment
- Developers must notify the NYISO whether or not they wish to proceed to the evaluation stage within 15 days of VSA results filed with PSC

New York ISO

Evaluation

- The NYISO evaluates proposed Public Policy Transmission Projects that have been found to be viable and sufficient and the respective Developers have decided to proceed to evaluation
- The NYISO evaluates the projects using the metrics set forth in the OATT and criteria prescribed in the PSC Order (e.g., Appendix A and Appendix B)
- The NYISO may develop scenarios that modify the VSA baseline case assumptions to evaluate the Public Policy Transmission Projects and select the more efficient or cost-effective project, if any, to satisfy the Public Policy Transmission Need

New York ISO

Evaluation

- The NYISO ranks Public Policy Transmission Projects for efficiency or cost effectiveness based on the metrics required by the tariff, as well as those prescribed in the PSC Order and any additional metrics considered in consultation with stakeholders in the context of the NYC PPTN

New York ISO

Selection

- The NYISO prepares draft Public Policy Transmission Planning (PPTP) Report and reviews drafts with ESPWG and TPAS
- BIC and MC review and advisory vote
- Market Monitoring Unit provides evaluation to MC
- NYISO Board approves PPTP Report and either selects a Public Policy Transmission Project or states reasons for not selecting
- The NYISO posts final PPTP Report

New York ISO

Questions?

New York ISO

Highlights of the NYC PPTN Order

2022-2023 Public Policy Process Cycle

- On August 31, 2022, the NYISO requested potential transmission needs driven by Public Policy Requirements from interested parties
- On November 7, 2022, the NYISO filed the proposed transmission needs with the PSC from 17 entities, as well as applicable proposed needs with LIPA
- On June 22, 2023, the PSC issued an order declaring a Public Policy Transmission Need ("PSC Order"):
  - https://www.nyiso.com/documents/20142/1406395/PSC-Order-NYC-PPTN.pdf

New York ISO

PSC Order Highlights

- **"The CLCPA … constitutes a Public Policy Requirement driving the need for additional transmission facilities to deliver the output of offshore wind generating resources to New York City interconnection points"**
- **The NYC PPTN calls for proposed solutions that must accommodate the full output of at least 4,770 MW of incremental offshore wind**
  - The Order notes that scenarios representing up to 8,000 MW of incremental offshore wind should be used by NYISO to evaluate performance of proposes solutions for expandability, renewable energy deliverability, and other metrics in evaluation phase
  - The Order also notes that offshore wind injections are incremental to the 2,046 MW of offshore wind generation interconnecting into Zone J with existing OREC contracts resulting from NYSERDA's first and second offshore wind solicitations
- **"Appendix A: Technical Requirements" of the PSC Order contains technical details that will be used in defining the viability & sufficiency criteria and evaluation criteria**

New York ISO

PSC Order Highlights, cnt.

- **Solutions to the transmission need must, among other things:**
  - Consist of a complete end-to-end proposal comprised of both offshore and onshore components to enable power injection into Zone J
  - Contain a plan to complete all permitting and construction activities necessary to achieve an in-service date no later than January 1, 2033
  - Contain a plan for how offshore wind generation would interconnect to the end-to-end transmission proposal at the offshore interconnection points

New York ISO

Complete “End-to-End” Solutions

- **Complete end-to-end solutions must be comprised of both offshore and onshore components to enable power injection into Zone J and should include the following components:**
  - offshore interconnection point(s),
  - offshore transmission (i.e., submarine cables),
  - sites for cable landing points,
  - onshore transmission path(s) (i.e., terrestrial cables) from cable landing points to points of interconnection in Zone J, including sites for converter stations, and
  - necessary improvements to and/or expansion of the existing onshore transmission system.

New York ISO

Highlights of PSC Evaluation Criteria

- **The PSC Order prescribes certain evaluation criteria for the NYISO's evaluation under Section 31.4.8.1.9 of the OATT:**
  - Minimization, to the extent possible, of the use of AC submarine cables in constrained areas identified in NYSERDA's 2022 offshore wind solicitation
  - Consideration of potential interference and/or synergy with the Long Island Offshore Wind Export Public Policy Transmission Need ("Long Island PPTN")
  - Demonstration that proposed solution will not preclude or foreclose the ability to expand and/or integrate into a future offshore transmission network
  - Optimization of intended corridors to achieve the intended level of offshore wind integration and account for the findings of NYSERDA's Cable Corridor Assessment
- **"Appendix B: Supplemental Criteria" contains additional criteria that leverages NYSERDA Cable Corridor Assessment for routing considerations and principles**

New York ISO

Involvement of State Agencies and Con Edison

- **The Order directs DPS staff to:**
  - Work with the state, federal, and local authorities with jurisdiction over aspects of the siting and construction of transmission in New York City to assist proposers and the NYISO on questions of permitting risk
  - To create opportunities to inform stakeholders of progress and gather stakeholder input
- **The Order requires Con Edison to undertake a process to make information available to potential Developers concerning points of interconnection on its system**

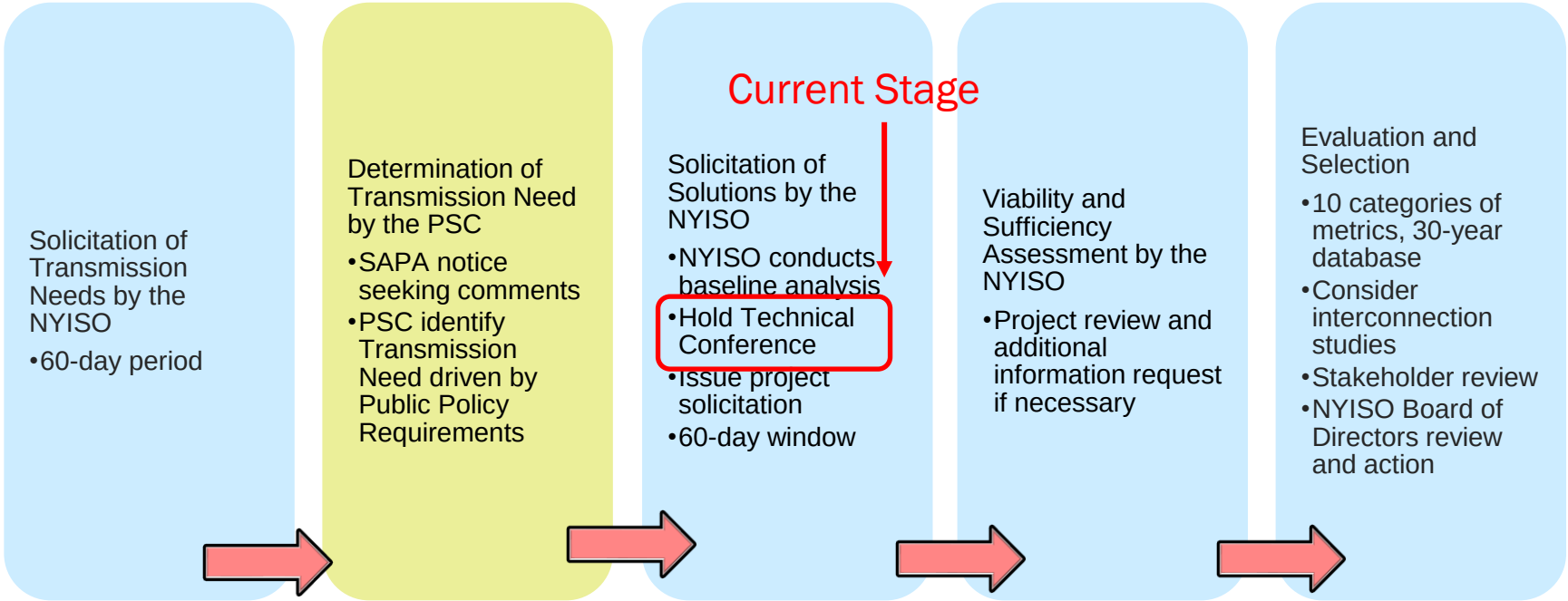
New York ISO

Questions?

New York ISO

Schedule

Public Policy Transmission Planning Process



Blue means NYISO steps

Green means PSC steps

New York ISO

Tentative Schedule for NYC PPTN

Major Steps	Process Steps	Estimated Timeline
Solicitation of Solutions	Prepare baseline assessment	Q3 - Q4 2023
	Hold technical conference	Q4 2023
	System Data and Information Sharing	Q4 2023
	Issue solicitation for solutions	Q1 2024*
	Solutions due in 60 days	Q1 2024
Viability & Sufficiency Assessment	Perform Viability & Sufficiency Assessment	Q2 - Q3 2024
	Project information release, facility characterization, and stakeholder review	Q2 2024
	Final Viability & Sufficiency Assessment filed with PSC	Q3 2024
Evaluation & Selection	Evaluate viable and sufficient transmission solutions	Q3 - Q4 2024
	Identify top-tier projects	Q4 2024
	Evaluate top-tier projects and issue draft report	Q1 - Q2 2025
	Board review and action	Q2 - Q3 2025

*Schedule dependent on Con Edison process directed by the Order

New York ISO

Questions?

New York ISO

Information & Resources for Developers

Information & Resources

- The NYISO presents NYC PPTN updates at stakeholder meetings, such as the ESPWG and TPAS, as well as technical conferences and other stakeholder meetings
- Detailed NYC PPTN Data Catalog can be found in the ESPWG and TPAS meeting material
- Con Edison information sharing process can be found on Con Edison's website
- Agency Siting Working Group point of contact(s) can be found in October 24 technical conference presentation

New York ISO

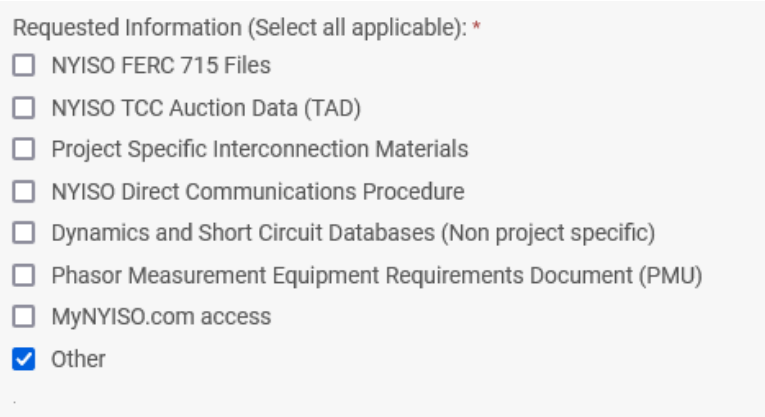
Developer Resources

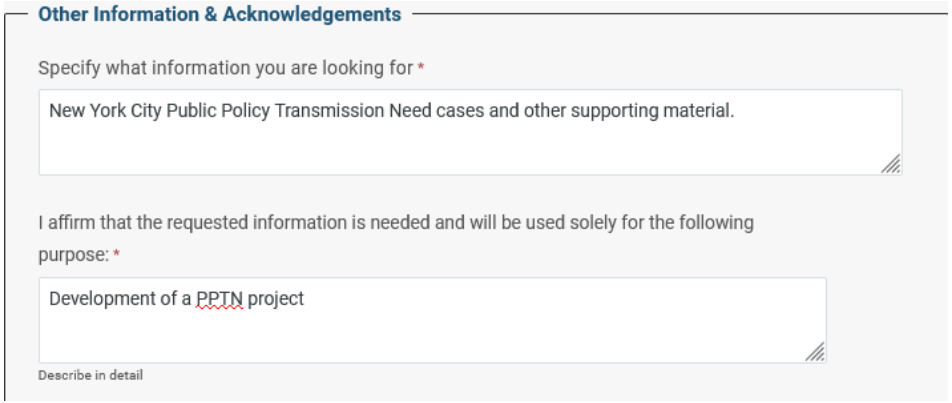
- **To the extent possible, Developers will be provided with the following resources by mid-November by request:**
  - Baseline case (updated Summer Peak and Spring Light Load) and transmission security auxiliary files
  - FAQ document(s) and/or study guidance document
  - References to assumptions used in economic planning studies
  - Ratings information and limiting equipment of constrained facilities
  - Breaker level one-line diagrams
- **This information may be provided by either the NYISO or the applicable Transmission Owner**
- **Cases will be available to everyone with an existing or newly approved CEII request and executed NDA**

New York ISO

Requesting Baseline Cases

- Preliminary baseline cases will be available on request by completing CEII/NDA form here





- Changes to baseline case may occur up to NYISO's solicitation for solution

New York ISO

Questions?

VSA Baseline Case Assumptions

VSA Baseline Case Assumptions

- **2033 Summer Peak case updated from 2023 FERC 715**
  - ~11,310 MW of Zone J load
- **2,046 MW of NYC Offshore Wind (OSW) at full output**
  - Beacon Wind: 1,230 MW @ Mott Haven – Rainey 345 kV
  - Empire Wind 1: 816 MW @ Gowanus 345 kV
- **3,000 MW of Long Island OSW at full output**
  - South Fork Wind: 139 MW @ East Hampton 69 kV
  - Sunrise Wind: 880 MW @ Holbrook 138 kV
  - Empire Wind 2: 1,260 MW @ Barret 138 kV
  - Additional (i.e., non-awarded): 800 MW @ Ruland Road 138 kV

New York ISO

VSA Baseline Case Assumptions, cnt'd

- **Major Transmission Projects**
  - T051 Propel NY Alt 5 solution to Long Island PPTN
  - Brooklyn Clean Energy Hub
  - Champlain-Hudson Power Express (full output of 1,250 MW)
  - Clean Path NY (0 MW injection in baseline case)
- **NYC Import Schedules:**
  - HTP = 0 MW
  - Linden VFT = 311 MW
  - ConEd-LIPA wheel = 300 MW
- **Flows on NY-NJ PARs are as per NYISO–PJM Joint Operating Agreement**

New York ISO

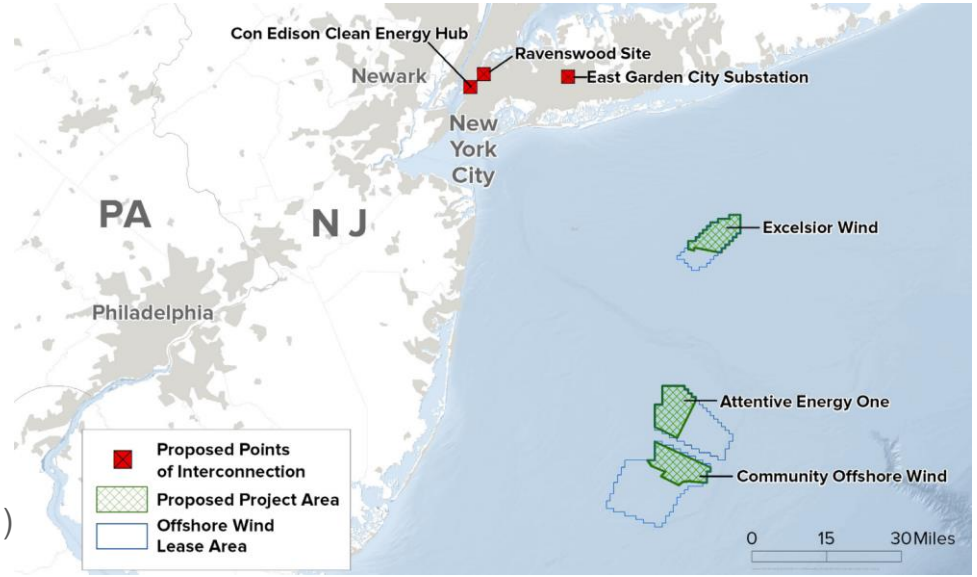
VSA Baseline Case Assumptions, cnt'd

- LTP updates in Zones J & K as included in 2023 FERC 715
- Upstate renewable buildout consistent with 2021 Outlook Study projections to meet 70% x 2030 CLCPA goals and includes projects that have accepted cost allocation in Class Year 21
  - Solar dispatched at 15% of capability
  - Land based Wind dispatched at 10% of capability
  - Energy Storage dispatched at 0% of capability

New York ISO

NYSERDA 2022 Offshore Wind Solicitation Awards

- **On October 24, 2023, NYSERDA announced three new offshore wind contract awards from its 2022 offshore wind solicitation**
  - 4,032 MW of offshore wind generation with dedicated generator lead lines
  - 2 projects with POIs in Zone J (New York City)
  - 1 project with POI in Zone K (Long Island)

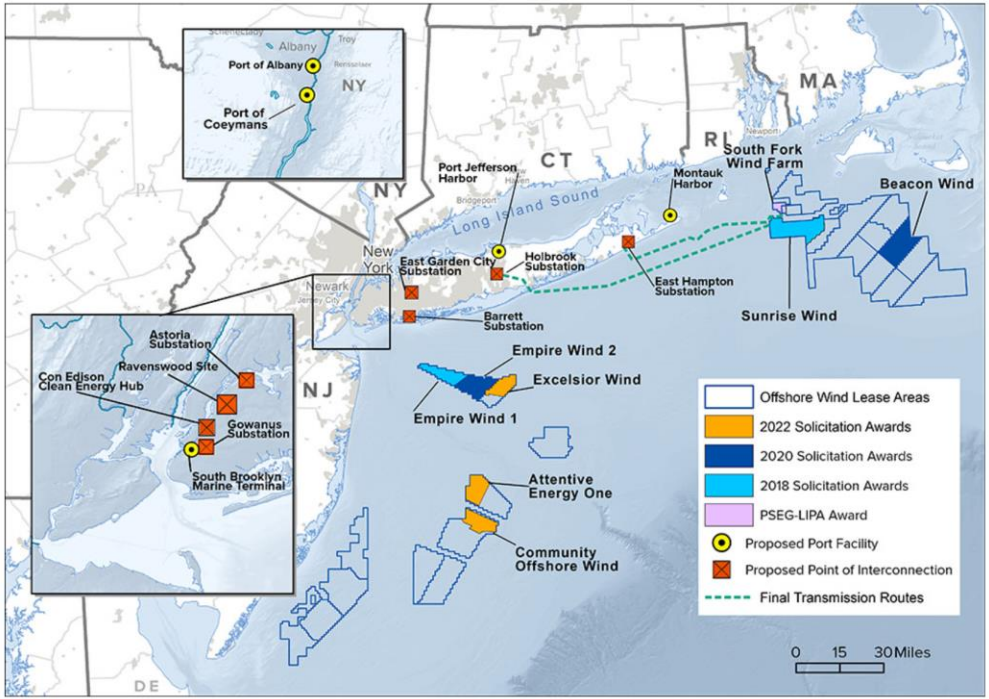


New York ISO

NYESRDA OREC Awards

NYC OSW Projects

Project	Size (MW)	POI	Solis.
Beacon	1,230	New Astoria	NY#2
Empire 1	816	Gowanus	NY#1
Attentive Energy 1	1,404	Ravenswood	NY#3
Community Offshore Wind	1,314	Brooklyn Hub	NY#3
Empire 2	1,260	Barrett	NY#2
Sunrise	880	Holbrook	NY#1
South Fork	130	East Hampton	LIPA
Excelsior Wind	1,314 MW	East Garden City	NY#3



New York ISO

NYSERDA OREC Awards

- Baseline case will not include 2022 Offshore Wind Solicitation Awards ("NY3 projects") for VSA analysis
- Developers do not need to assume NY3 projects are part of their project proposals to meet 4,770 MW of incremental Offshore Wind injection into Zone J
- Potential sensitivities to evaluate NY3 projects and other subsequent awards will be considered in the evaluation stage in incremental amounts up to 8,000 MW
- Updates will be provided as new information is received

New York ISO

Questions?

Viability Assessment

Viability Assessment

- **The NYISO will consider the following in determining the viability of the proposed solutions**
  - Developer qualification data provided pursuant to Section 31.4.4 and the project information data provided under Section 31.4.5
  - Whether the proposed solution is technically practicable
  - Developer's possession of, or approach for acquiring, any necessary rights-of-way, property, and facilities that will make the proposal reasonably feasible to be in service no later than January 1, 2033
  - Whether the proposed solution can be in service no later than January 1, 2033

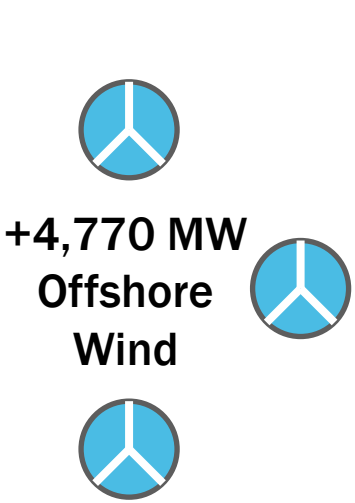
New York ISO

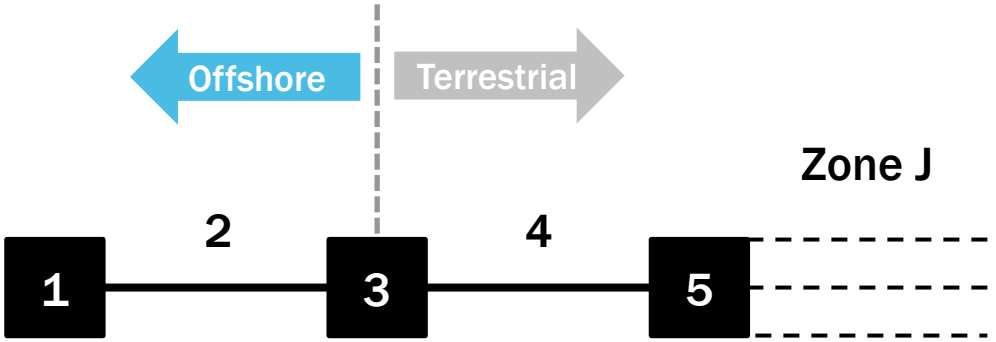
Questions?

New York ISO

Sufficiency Criteria

New York City Offshore Wind PPTN





1	offshore interconnection point(s)
2	offshore transmission (i.e., submarine cables)
3	sites for cable landing points
4	onshore transmission path(s) (i.e., terrestrial cables)
5	necessary improvements to and/or expansion of the existing onshore transmission system

New York ISO

Sufficiency Criteria

- Accommodate the full output of at least 4,770 MW of incremental offshore wind generation injected into New York City (Zone J), under applicable reliability standards, without reducing the overall output of other renewable resources interconnected in Zones J and K
- 4,770 MW of OSW is incremental to the 2,046 MW of OSW generation identified as interconnecting into Zone J in the PSC Order

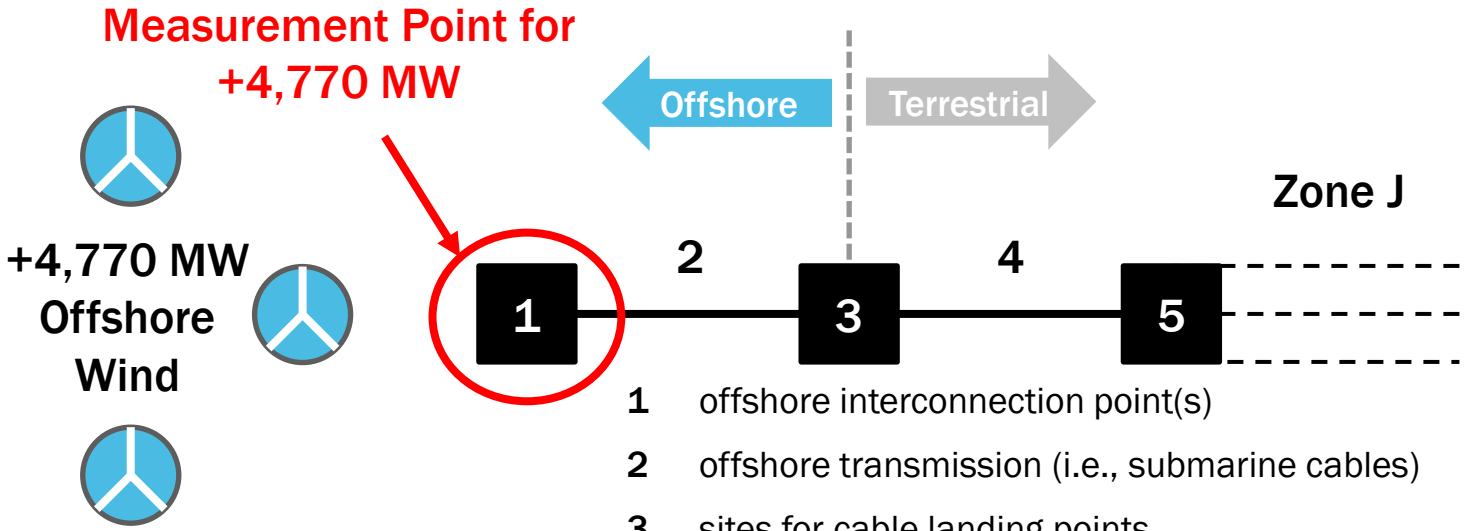
New York ISO

Sufficiency Criteria

- Consist of a complete end-to-end proposal comprised of both offshore and onshore components to enable power injection into Zone J
- Demonstrate that solutions can achieve an in-service date no later than January 1, 2033
- A proposed solution must satisfy the sufficiency criteria by itself

New York ISO

“Incremental Offshore Wind” Measurement



1 offshore interconnection point(s)

2 offshore transmission (i.e., submarine cables)

3 sites for cable landing points

4 onshore transmission path(s) (i.e., terrestrial cables)

5 necessary improvements to and/or expansion of the existing onshore transmission system

New York ISO

Questions?

New York ISO

Sufficiency Assessment

Sufficiency Assessment – Project Modeling

- As part of a proposal, Developers need to propose where and how the 4,770 MW of incremental offshore wind is connected to the proposed project. More specifically, the proposal needs to include:
  - Modeling of 4,770 MW of OSW injection at the offshore POI(s)
  - Modeling of the proposed complete end-to-end transmission solution
  - Demonstration of generation energy deliverability through documentation, such as a developer planning study
- As part of the sufficiency assessment, the NYISO will model the proposed Public Policy Transmission Project or Other Public Policy Project, along with the proposed 4,770 MW injection location(s), in the VSA baseline case

New York ISO

Sufficiency Assessment – Project Modeling

- Existing generation within Zone J can be dispatched down to accommodate injection of 4,770 MW OSW interconnecting in Zone J
- Following generation in Zones J and K should be maintained at their full output:
    - 2,046 MW of OSW interconnecting into Zone J
    - 3,000 MW of OSW interconnecting into Zone K
    - 1,250 MW injection by Champlain-Hudson Power Express
- Certain conventional units are to be dispatched in Zones J and K for local reliability needs

New York ISO

Sufficiency Assessment - Applicable Reliability Standards

- Steady-state N-0, N-1, and N-1-1 thermal and voltage analysis will be performed
- Solutions should ensure injection of 4,770 MW under applicability reliability standards for the onshore facilities
- Impact of contingencies associated with offshore facilities on the reliability of the transmission system will be evaluated. Solutions are not required to inject 4,770 MW for consequential loss of offshore facilities
- Post-contingency rating of underground cables will be limited to LTE
- N-1-1-0 will be not be performed in the sufficiency assessment but will be performed in the System Impact Study

New York ISO

Sufficiency Assessment – Generation Redispatch

- **Security constrained dispatch will allow system adjustments consistent with transmission security criteria**
- **Following generation in Zones J and K should be maintained at full output:**
    - 2,046 MW of OSW interconnecting into Zone J (i.e., Beacon Wind, Empire Wind 1)
    - 3,000 MW of OSW interconnecting into Zone K (i.e., Sunrise Wind, Empire Wind 2, East Hampton, and non-awarded Ruland Rd)
    - 1,250 MW injection by Champlain-Hudson Power Express

New York ISO

Sufficiency Assessment - Single Loss of Source Criteria

- The NYISO will not limit injections to 1,310 MW at the offshore interconnection point(s)
- An analysis of the impact of any injections higher than 1,310 MW on the wholesale electrical market and system operation will be studied in project evaluations

New York ISO

Potential Constraints Excluded From Sufficiency Criteria

- Facilities operating at voltage below 100 kV
- Certain constraints excluded from sufficiency criteria may be respected in the evaluation of more efficient and cost-effective solution

New York ISO

Questions?

New York ISO

Project Evaluation

Project Evaluation

- For projects deemed viable and sufficient and that elect to proceed to the evaluation phase, several qualitative and quantitative analyses are performed to identify the “more efficient or cost-effective” solution to the need

New York ISO

Evaluation– Project Modeling

- **As part of the proposal, Developers may propose where and how up to 8,000 MW of incremental offshore wind is connected to the proposed project. More specifically, the proposal needs to include:**
  - Modeling of 8,000 MW of OSW injection at the offshore POI(s)
  - Modeling of the proposed complete end-to-end transmission solution
  - Demonstration of generation deliverability through documentation, such as a developer planning study
- **8,000 MW of OSW injection is incremental to the 2,046 MW of OSW generation interconnecting into Zone J, as specified in the PSC Order**

New York ISO

Potential Constraints Excluded From Evaluation Criteria

- Solutions are not required to relieve bulk export constraints on the interface from Zone J to the rest of the New York Control Area under light load conditions
  - Dunwoodie south interface
- Certain constraints excluded from sufficiency criteria may be respected in the evaluation of more efficient and cost-effective solution

New York ISO

Additional Evaluation Scenarios

- In addition to the VSA baseline case, additional scenarios will be used in the Evaluation phase to evaluate and rank projects' performance in the expandability and other metrics
- Additional scenarios may include assumptions for additional offshore wind (e.g., NY3 awards or future OREC awards)

New York ISO

Evaluation Comments & Suggestions

- The NYISO encourages Developers and interested parties to provide comments and suggestions regarding the appropriate metrics to evaluate and identify the more efficiency or cost-effective solution to the NYC PPTN

New York ISO

Applicable Evaluation Metrics

Tariff Required Metrics

- Capital Costs
- Cost Cap
- Cost per MW Ratio
- Expandability
- Operability
- Performance
- Property Rights
- Project Schedule

Other Potential Metrics

- Production Cost
- LBMP
- Losses
- Emissions
- ICAP Costs
- TCC
- Transmission Congestion
- Transfer Limits
- Deliverability

New York ISO

Additional PSC Specified Metrics

- **In the PSC Order, Appendix A identifies six additional evaluation criteria to be considered[1]**
  - Ability to enable injection of up to 8,000 MW of incremental OSW into NYC
  - Minimize use of AC submarine cables in constrained areas
  - Do not preclude or foreclose ability to expand and/or integrate into a future offshore transmission network
  - Not required to relieve bulk export constraints from Zone J to rest of NYCA under light load
  - Optimize use of intended corridors in Cable Corridor Assessment
  - Consider potential interference and/or synergy with Long Island PPTN

[1]*Criteria are paraphrased from PSC Order, please see Order Appendix A for full description*

New York ISO

Questions?

Developer Qualification Process

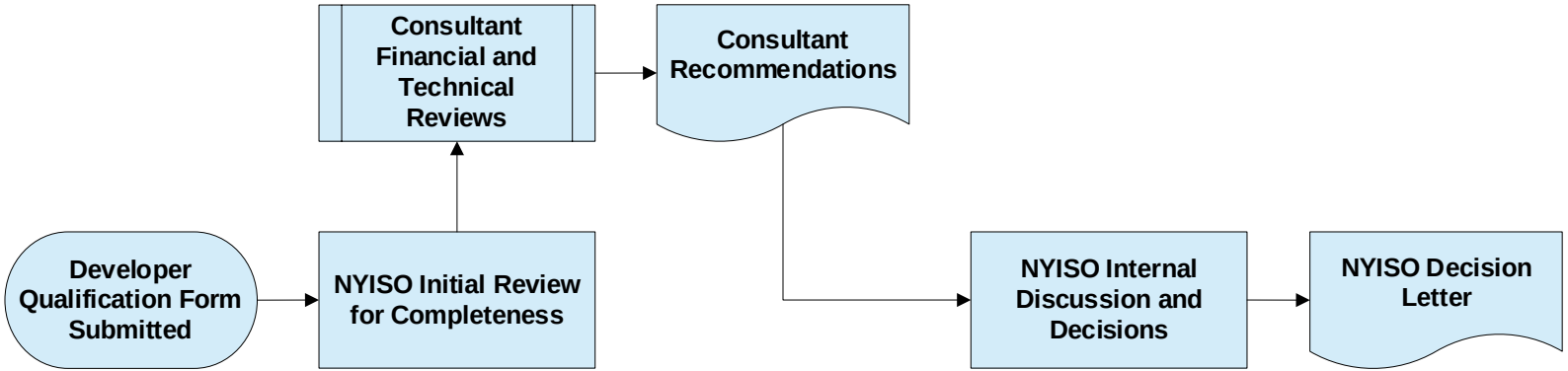
Developer Qualification Overview

- **Entities must be qualified under Attachment Y to submit transmission solutions in the NYISO's Comprehensive System Planning Process ("CSPP")**
- **The qualification process is set forth in:**
  - Section 31.2.4 for the Reliability Planning Process
  - Section 31.3.2.4.1 for the Economic Planning Process
  - Section 31.4.4 for the Public Policy Transmission Planning Process
  - Appendix H of the Reliability Planning Process Manual

New York ISO

Process Overview–Continued

- In order to become qualified, a Developer is required to submit a Developer Qualification Form and include information to demonstrate that it has the requisite experience in developing, financing, and operating a transmission facility.
- Application Process (Typically 30-60 Days)



New York ISO

Process Overview–Continued

- A Developer is qualified for three years
- Obligations of Qualified Developers following qualification:
  - Submit annual financial statements
  - Notify the NYISO of any material change to information provided in the most recently submitted Developer Qualification Form
- If a Developer wishes to remain qualified at the end of the three-year period, it must submit a new Developer Qualification Form prior to the end of the period

New York ISO

Developer Qualification During Solicitation Window

- Developers can submit Developer Qualification Applications during an open PPTPP solicitation window
  - Must submit required qualification information within 30 days after the NYISO issues a solicitation for solutions
  - The NYISO has 30 days to request additional information and Developers have 15 days to respond
  - The NYISO will notify the Developer whether it is qualified; however, the Developer must be qualified in order to submit a solution
- The NYISO strongly encourages any Developer interested in participating in the NYC PPTN to submit a Developer Qualification Form prior to the NYISO's request for solutions [Link]
- To apply to be a Qualified Developer for the PPTPP, complete Developer Qualification Form (Attachment A of Reliability Planning Process Manual) and send to developerqualification@nyiso.com. Information is available at www.NYISO.com -> Planning -> Developer Qualification Process

New York ISO

Current Qualified Developers

- Anbaric Development Partners, LLC
- Avangrid Networks, Inc.
- Boundless Energy NY, LLC
- Central Hudson Gas & Electric Corporation
- Con Edison Transmission, Inc.
- Consolidated Edison Company of New York
- Exelon Transmission Company, LLC
- Invenergy Transmission LLC
- Long Island Lighting Company d/b/a LIPA
- LS Power Grid New York Corporation I
- LS Power Grid New York Corporation II
- National Grid USA
- New York Power Authority
- New York State Electric & Gas Corporation
- New York Transco, LLC
- NextEra Energy Transmission New York, Inc.
- Orange and Rockland Utilities
- PPL TransLink, Inc.
- Rochester Gas & Electric Corporation
- SP Transmission, LLC
- Transource New York Development Company, Inc.
- Transource New York, LLC

Link to Qualified Developer List

New York ISO

Questions?

New York ISO

Application Process

Project Submission

- **A Developer must:**
  - Provide project information in accordance with Section 31.4.5 of the OATT and Section 3.4 of the Public Policy Transmission Planning Manual
    - NOTE: An updated version of Attachment B and Attachment C – Data Submission for Public Policy Transmission Projects will be available prior to the issuance of the solicitation
  - Execute a study agreement with NYISO and submit to the NYISO a non-refundable application fee of $10,000 and a study deposit of $100,000
  - Submit a Transmission Interconnection Application or Interconnection Request, as applicable
- **All project proposals should be submitted to the NYISO via e-mail to its Public Policy Planning Mailbox: PublicPolicyPlanningMailbox@nyiso.com**
- **Submittal of a Transmission Interconnection Application or Interconnection Request must be done through the "Interconnection Projects Community" webpage**
  - Developers require an Interconnection Projects Community portal account, and such access should be requested as soon as possible

New York ISO

Project Submission…cont'd

- Developers shall submit redacted and un-redacted versions of their project information in accordance with Sections 31.4.4.3.3 and 31.4.15 of Attachment Y
- Developers must submit separate applications for each Public Policy Transmission Project; the only permitted alternatives within a proposed Public Policy Transmission Project are routing alternatives

New York ISO

Project Submission…cont'd

- **For Public Policy Transmission Projects, Developers must:**
  - Propose a detailed major milestone schedule, including identifying in-service dates required sequencing of components for transmission solutions, if applicable
  - Distinguish which project components are new facilities and which are upgrades, as well as clearly identify facilities that are included as potential interconnection facilities that will be subject to further study by the NYISO

New York ISO

Coordination with Interconnection Process

- **A Developer submitting a Public Policy Transmission Project must also demonstrate that it submitted a request to interconnect to the New York State Transmission**
  - Most transmission projects addressing public policy transmission needs have submitted a Transmission Interconnection Application under the Transmission Interconnection Procedures (TIP) to evaluate the interconnection of its facility(ies)
- **The project information for a Public Policy Transmission Project must be the same as the project submitted by the Developer in the Transmission Interconnection Application or Interconnection Request**
  - When submitting a Transmission Interconnection Application, Developers should clearly identify any potential interconnection facilities and not identify them as part of the "Transmission Project," as defined by Attachment P, to avoid confusion
- **To the extent available, information from interconnection studies will be used in the evaluation and selection of the more efficient and cost-effective solution**

New York ISO

Coordination with Interconnection Process…cont'd

	Public Policy Transmission Planning Process	Transmission Interconnection Procedures
Purpose	Evaluate & select the more efficient or cost - effective solution to the PPTN	Identify NUFs that are necessary to reliably connect the Transmission Project
Process Stages	Viability & Sufficiency, Evaluation & Selection, Development Agreement, and post-selection monitoring	System Impact Study, Facilities Study, Interconnection Agreement (if applicable)
Application Process	Proposals containing information in Sections 31.4.4.3, 31.4.4.4, and 31.4.5 emailed to PublicPolicyPlanningMailbox@nyiso.com	Transmission Interconnection Application submitted through NYISO's Interconnection Portal
Fees/Costs	$10,000 application fee + $100,000 study deposit for actual costs of study	$10,000 application fee + $120,000 study deposit for actual costs of System Impact Study*
* Does not include fees/costs for the Facilities Study and assumes Developer will elect to forego optional feasibility study		

New York ISO

NYISO Requests for More Information

- If: (i) the NYISO determines that the Developer's submission of its project information is incomplete or (ii) the NYISO determines at any time in the planning process that additional project information is required, the NYISO shall request that the Developer provide additional project information or satisfy other project submission requirements in Sections 31.4.4.3 or 31.4.4.4 within 15 days
- A Developer's failure to provide the data requested by the NYISO within the timeframes described above shall result in the rejection of the Developer's proposed project from further consideration during that planning cycle

New York ISO

Correspondence

- NYISO point of contact for the Public Policy Transmission Planning Process should be done via e-mail to its Public Policy Planning Mailbox: PublicPolicyPlanningMailbox@nyiso.com
- Questions, comments and suggestions on the NYC PPTN should be raised during stakeholder discussions or provided to the NYISO by submitting questions to stakeholder_services@nyiso.com with the subject line 'NYC PPTN'
- CEII data will be exchanged through the Box
  - Developer specific folders
  - Each member of the development team will have to submit a CEII request to access the data on the Box
- Please designate more than one point of contact

New York ISO

Questions?

Capital Cost Estimates

Capital Cost Estimates

- **Developers are required to submit credible capital cost estimates for their proposed solutions**
- **For Public Policy Transmission Projects, the capital cost estimates must include itemized costs for all equipment for:**
  - the proposed project (separately identifying new transmission facilities and Public Policy Transmission Upgrades), and
  - interconnection facilities that either (a) the NYISO identified as necessary in a NYISO-conducted interconnection study under the OATT or (b) the Developer voluntarily identifies as potentially necessary to reliably interconnect the proposed project (subject to modification based on NYISO-conducted interconnection or transmission expansion studies, as applicable) (see Section 31.4.5.1.3 for more details)

New York ISO

Capital Cost Estimates

- In accordance with Attachment Y, a Cost Cap is a Developer's binding commitment to contain certain categories of capital costs for a proposed Public Policy Transmission Project
- A Developer may voluntarily submit a Cost Cap with its Public Policy Transmission Project that proposes to contain all capital costs incurred by a Developer to plan for and construct its project and to make ready for its intended use, which is defined as the "Included Capital Costs," with the exception of "Excluded Capital Costs"
  - Section 31.4.5.1.8.1 of the OATT details what capital costs include
  - A proposal must include contingency percentage and escalation factors, if any, applicable to the Included Capital Costs

New York ISO

Capital Cost Estimates

- **"Excluded Capital Costs"** include the following categories of costs: (i) the cost of Public Policy Transmission Upgrade(s); (ii) the cost of NUFs; (iii) debt costs, allowance for funds used during construction (AFUDC), and other representations of the cost of financing the transmission project during the construction timeframe that may be included as part of the capital cost of the project when it enters into service or as otherwise determined by the Commission; (iv) unforeseeable environmental remediation and environmental mitigation costs, and (v) real estate costs for existing rights-of-way that are part of the proposed Public Policy Transmission Project, but are not owned by the Developer, that Developer chooses not to include as Included Capital Costs

New York ISO

Capital Cost Estimates

- If a Developer elects to submit a Cost Cap, it must be in the form of either a hard Cost Cap or a soft Cost Cap as detailed in the tariff
  - **Hard Cost Cap** is a dollar amount for those costs above which the Developer will not be eligible to recover from ratepayers its actual costs for the Included Capital Costs that exceed the capped amount
  - **Soft Cost Cap** is a dollar amount for those costs above which the Included Capital Costs are shared between the Developer and ratepayers, based on a Developer-proposed percentage. The share of costs above the cap borne by the Developer must be greater than or equal to 20% (leaving 80% of costs in excess of the cap to consumers)

New York ISO

Questions?

Facility Characterization

Facility Characterization

- On April 15, 2021, FERC confirmed and clarified certain aspects of the NYISO's transmission planning process, specifically that there is a federal right of first refusal for Transmission Owners in New York to build, own, and recover the cost of upgrades to their existing transmission facilities
- On March 11, 2022, FERC granted NYISO's filing pursuant to Section 206 of the Federal Power Act that revised the Public Policy Transmission Planning Process to include a mechanism to implement the Transmission Owners' right of first refusal for upgrades to their existing transmission facilities
- The NYISO implemented the tariff revisions in the Public Policy Process for the Long Island PPTN and identified four Designated Entities for the selected project

New York ISO

Facility Characterization

- Under the existing rules in the tariff, 30 calendar days prior to the NYISO's presentation of the initial draft VSA, the NYISO will post a list of facilities that make up the Public Policy Transmission Projects (i.e., not including potential interconnection facilities)
- The list will identify facilities as:
  - New transmission facilities
  - Public Policy Transmission Upgrades
- The list will also include, for information purposes only, potential interconnection facilities identified in a proposal submitted by a developer
- The posting of the list initiates a 20-calendar-day period for interested parties to comment on NYISO's determination to identify, or not identify, a facility included as a part of the Public Policy Transmission Project as a Public Policy Transmission Upgrade

New York ISO

Facility Characterization

- **On September 7, 2023, DPS staff filed a questions and answer document to address clarifications of the PSC Order for the NYC PPTN and stated that**

  > The Order does not grant any new rights or alter any existing rights that Con Edison currently possesses under the NYISO's tariffs and agreements to build, own, and recover the cost of transmission facilities proposed in the Public Policy Transmission Planning Process. The PSC intended that the rules under the NYISO's tariffs governing the designation of a selected Public Policy Transmission Project apply to a transmission solution proposed by a developer to address this current Public Policy Transmission Need.

- **The NYISO will administer the current rules regarding the facility characterization and designation process consistent with, among others, Sections 31.4.6.5.1.1, 31.4.11, and 31.4.12 of the OATT**

New York ISO

Facility Characterization

- **In designing proposed solutions, Developers should review the tariff and be familiar with the definition of Public Policy Transmission Upgrade, which includes:**

  > "Any portion(s) of a Public Policy Transmission Project that satisfies the definition of upgrade in Section 31.6.4 of this Attachment Y," which refers to "an improvement to, addition to, or replacement of a part of, an existing transmission facility and shall not refer to an entirely new transmission facility."

- **Developers can refer to facility characterizations from the Long Island PPTN (which is contained in the Long Island PPTN report) and FERC precedent under Order No. 1000 for further information on what facilities constitute new transmission facilities and Public Policy Transmission Upgrades**

New York ISO

Questions?

New York ISO

Next Steps

Next Steps

- **Upcoming Technical Conference schedule**
  - December 7 NYISO 2nd Technical Conference
- **Solicitation Opening**
  - Q1 2024 Targeted Date

New York ISO

Questions?

Feedback

- The NYISO conducts an open and transparent process and will continue to ensure information is available to all stakeholders and Developer(s)
- Please send feedback on the material presented at this tech conference by Monday, November 13
- Feedback and questions on the NYC PPTN should be raised during stakeholder discussions or provided to the NYISO by submitting questions to stakeholder_services@nyiso.com with the subject line “NYC PPTN”
- The NYISO will review questions received from stakeholders and will address them, to extent feasible, during stakeholder meetings, other open forums, and/or in FAQ documents

New York ISO

New York City PPTN Data Catalog

Stakeholder Presentations

July 25, 2023
- NYC PPTN Update

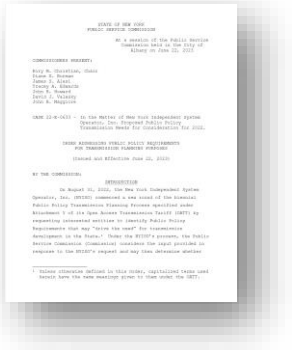
August 22, 2023
- NYC PPTN Update
- PPTPP Lessons Learned

September 21, 2023
- NYC PPTN Update

October 2, 2023
- NYC PPTN Update

October 24, 2023
- NYC PPTN Update

PSC Order



NYC PPTN Report

Other Documents

- DPS/NYISO PSC Order Q&A Document
- NYISO CEII Data Request Form
- Con Edison NYC PPTN Related Website
- NYSERDA Offshore Wind Cable Corridor Constraints Assessment
- Agency Working Group Technical Conference Presentation
- Con Edison Technical Conference Presentation
- Con Edison FAQs

Our Mission & Vision

Mission

Ensure power system reliability and competitive markets for New York in a clean energy future

Vision

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

New York ISO