

Long Island Offshore Wind Public Policy Transmission Need

Technical Considerations for Potential Developers

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Technical Considerations

- Proposed construction of additional overhead facilities within existing LIPA bulk power ROWs must comply with NESC clearance standards and/or PSC guidelines for EMF field strength at the edge of the ROW.
 - Proposals should recognize space availability and land use within and around the existing ROWs
- LIPA Board Policy's Construction of Transmission and Distribution Projects (see link below) applies to construction of any existing 69kV facilities within its service territory.
 - LIPA's policy for OH/UG considerations is clear, and mirrors the Article VII process in many ways, and is similar to Title 16 of NYCRR Part 102

Technical Considerations

- Most LIPA substations have little or no room for expansion within their existing footprint. Some substations may present constructability or physical constraints. Others may require expensive realignment of existing connections to provide reliable diversification of new resources.
 - De-rating of existing transmission and distribution circuits will require additional short and long-term studies
- Interconnection processes are well established and points of interconnections are typically at substations. Tapping into LIPA's transmission circuits may result in unbalanced flows on parallel paths that will impact transfer limits across the system, and in system upgrade costs.
 - Proximity to existing substations
 - Fault currents
 - Existing applications in the NYISO queue

Technical Considerations

- LIPA and PSEG Long Island have previously identified projects, including transmission upgrade projects, that would address some of the bottlenecks or constraints on the injection and delivery of renewable generation on the LIPA system
 - DPS - Utility Transmission and Distribution Investment Working Group Report (Note: Appendix C-page 134 “Phase 2 Projects”)
 - Existing long and short-term transmission and distribution plans should be considered

Hyperlinks

- [PSEGLI Transmission Planning Criteria](#)
- [Requirements for Generator Connections to the LIPA System](#)
- [NYISO Transmission Expansion and Interconnection Manual](#)
- [Bulk Electric System Facility and End User Interconnection Requirements to the LIPA Transmission System May 2017](#)
- [LIPA 2019 Local Transmission Plan](#)