NYISO Interconnection Process

Richard Wright, Senior Engineer

Central Hudson, Electric Transmission Planning



Applicability

- Developer must:
 - Apply to participate in an NYISO market(s)

AND

Have a FERC Jurisdictional Point of Interconnection

If both of these do not apply, NYISO will reject the application and notify the developer to apply through the TO's process



What is a FERC Jurisdictional Point of Interconnection (POI)?

 Any POI that the TO considers to be a part of their transmission system

OR

 Any distribution circuit or bus with a generator (present or past) that participated in an NYISO market(s)



NYISO Processes

- Two main processes:
 - LGIP: Large Generator Interconnection Process

(> 20 MW)

- Feasibility Study (Optional)
- SRIS: System Reliability Impact Study
- Class Year Facilities Study
- SGIP: Small Generator Interconnection Process

(≤ 20 MW)

- Pre-Application Request (Optional)
- Feasibility Study (Optional)
- SIS: System Impact Study
- Stand-Alone Facilities Study or Class Year Facilities Study



FES: Feasibility Study

- Optional
- High level review of the project's impact on the system
 - Thermal; Voltage; Short Circuit
- Allows study of multiple POIs
- Good Faith Cost Estimates (+50% / -50%) for:
 - Connection of the project
 - Any necessary system upgrades



SGIP

SIS: System Impact Study

- May be waived depending on the results of a FES
- Detailed review of the project's impact on the system
 - Thermal; Voltage; Short circuit; Stability
- Good Faith Cost Estimates (+50% / -50%) for:
 - Connection of the project
 - Any necessary system upgrades



SGIP

Stand-Alone Facilities Study

- Applicable if SIS determined no need for upgrades remove from the POI
 - If remote upgrades necessary, the project must participate in the Class Year Facilities Study
- Determines equipment necessary to interconnect the facility to the POI
- Binding Cost Estimates (+30% / -15%)



Class Year Facilities Study

- Determines cumulative impacts from a group of projects that have met a milestone
- Allocates system upgrade costs among the projects & the TOs (for pre-existing conditions)
- Required for LGIP; conditionally required for SGIP
- Milestones:
 - SGIP:
 - Completed SIS, and
 - Requested CRIS (if project > 2 MW), or
 - SIS required a non-local upgrade



Class Year Facilities Study

- Detailed review of the projects' cumulative impact on the system
- Thermal; Voltage; Short Circuit; Stability; Transfer Limits
- Capacity Delivery (Optional-but required to participate in the capacity market)
- Binding Cost Estimates for:
 - Connection of the projects
 - Any necessary system upgrades
 - Any necessary upgrades for capacity deliverability



Queuing Among Processes Straw Proposal

- NYISO, TOs & DPS developed a Queuing Straw Proposal during 2018-2019
- Straw Proposal presented at 04/23/2019 IPWG and 06/26/2019 ITWG meetings
- Queuing based on "Firm" date
 - SIR: Executed IA and 25% payment for upgrades
 - NYISO:
 - Non-Class Year: Signed Facilities Study Agreement
 - Class Year: Accepts Costs and Posts Security
 - TO: Executed IA and 100% payment for upgrades



Questions?

