

# NYSRC DER Reliability Workshop

Interconnection Procedures and  
Queue Coordination

# Interconnection Procedures

- Utilities are required to manage and/or coordinate among 3 distinct interconnection procedures
  - NYISO Large and Small Interconnection procedures
  - New York State Standardized Interconnection Requirements (SIR)
  - Utility Interconnection Procedures

# Interconnected Projects and Queue Size

- Queue Coordination is critical as interconnection queues continues to grow
- Besides PV and Wind, Battery storage resources proposals are becoming significant

	In Service (MW)	In Service (# of Projects)	In Queue (MW)	In Queue (# of Projects)
NYISO	1,884	24	15,318	140
NYS SIR	1,362	109,054	1,849	13,310
Total	3,246	109,078	17,167	13,450

# Interconnection Jurisdiction

- Interconnection study lead and process based on three criteria
  - Intended Market (Wholesale or Retail)
  - Interconnection Point (Transmission, Distribution FERC or non-FERC jurisdictional)
  - Project Size

Intended Market	Interconnection Point *	Project Size	Study Process
Wholesale	NYS Transmission System or Distribution subject to NYISO's OATT Interconnection Procedures**	> 5MW	NYISO
		≤ 5MW	NYISO
	Distribution not subject to NYISO's OATT Interconnection Procedures	> 5MW	Utility
		≤ 5MW	SIR
Retail	NYS Transmission System or Distribution subject to NYISO's OATT Interconnection Procedures	> 5MW	Utility
		≤ 5MW	Utility
	Distribution not subject to NYISO's OATT Interconnection Procedures	> 5MW	Utility
		≤ 5MW	SIR

# Coordination of Inclusion Rules

- Coordination of inclusion rules is critical for study work
- Projects are competing for the same interconnection points
- Interconnection procedures are not consistent
  - SIR and Utility procedures require full deliverability
  - NYISO procedure is a minimum interconnect standard
- Projects may be dependent on upgrades paid for by developers in other interconnection processes
- No ability to share upgrade costs between Interconnection processes
- In many cases the same project may be venue shopping and have applied through both NYISO and Utility Procedures

# Queue Coordination Working Group

- Working group of NYISO, TOs and NYPSC staff formed in late 2017
- Developed a straw proposal for queue coordination – defines when a project is considered firm
  - SIR process – when IA is executed and a 25% payment received
  - Utility process – when IA is executed and upgrade payments made
  - NYISO process
    - Non-Class Year when Facilities Agreement executed
    - Class Year when project accepts Class Year cost allocation and posts security

# Queue Coordination Working Group

- Documents developed by the Working Group are currently being reviewed at various stakeholder forums
  - NYISO MIWG
  - NYPSC – ITWG and IPWG
- May require NYISO tariff and/ or technical manual changes
- May require updates to NYS SIR

# Operational Coordination

- Working Group did not address operational coordination
- Issues that still need to be addressed
  - Load forecasting – SIR projects currently treated as load modifiers by TOs
  - Lack of monitoring and control for many SIR projects
  - No rules regarding precedence for curtailment of resources for system security