

Increasing Hosting Capacity Study Update

DRAFT

**Long Island Interconnection Working Group Meeting
October 13, 2022**

Purpose

- Conduct system wide study to prioritize locations and specific projects for increasing hosting capacity limits.
- Developed methodology to select distribution which are constrained (lower hosting capacity) and have high developer interest for interconnection.
- Created three categories to select diverse set of circuits for the study
 - Category 1: Captures circuits with high penetration and low hosting capacity
 - Category 2: Captures circuits with medium penetration and low hosting capacity
 - Category 3: Captures circuits with higher magnitude of DER MWs in queue
- Total of 47 circuits were selected for detailed study

Increase Hosting Capacity: Detailed Study Scope

- **Detailed feeder studies are being conducted for the identified 47 circuits**
 - *Thermal and Voltage Constraints*
 - *Substation 3V0 limitation*
 - *Tap changer limitations*
- **Potential solutions**
 - *Thermal Constraints* – *Upgrades*
 - *Voltage Constraints* – *Capacitor bank optimization/installation, Install/relocate voltage regulator, load balancing, load transfers, DER resource power factor optimization etc.*
 - *Substation 3V0 limitation* – *Detailed assessment by engineering*

CONCLUSION

- Next Steps

- Currently in the process of studying individual circuits and complete the study by Dec 31, 2022
- Identify the preferred category of solutions based on study results