



NYISO Operating Study Summer 2026

**A Report by the
New York Independent System Operator**

April 2026

Table of Contents

EXECUTIVE SUMMARY	4
INTRODUCTION	5
PURPOSE	5
SYSTEM OPERATING LIMIT (SOL) METHODOLOGY	5
STUDY PARTICIPANTS	6
SYSTEM REPRESENTATION AND BASE STUDY ASSUMPTIONS	7
System Representation	7
<i>Generation Resource Changes</i>	8
<i>Transmission Facilities Changes</i>	8
System Representation	9
DISCUSSION	10
Resource Assessment	10
<i>Load and Capacity Assessment</i>	10
Cross-State Interfaces	11
<i>Transfer Limit Analysis</i>	11
<i>West Woodbourne Transformer</i>	12
<i>ConEd – LIPA Transfer Analysis</i>	12
<i>Transfer Limits for Outage Conditions</i>	14
<i>Transient Stability and Voltage Transfer Limits</i>	14
Thermal Transfer Capabilities with Adjacent Balancing Areas	14
<i>New York – New England Analysis</i>	15
<i>New York - PJM Analysis</i>	17
<i>Ontario – New York Analysis</i>	18
<i>TransÉnergie–New York Interface</i>	19
SUMMARY OF RESULTS – THERMAL TRANSFER LIMIT ANALYSIS	20
TABLE 1.a – NYISO CROSS-STATE INTERFACE THERMAL TRANSFER LIMITS - SUMMER 2026 .	21
ALL LINES IN-SERVICE	21
TABLE 1.b – NYISO CROSS-STATE INTERFACE THERMAL TRANSFER LIMITS - SUMMER 2026 .	22
ALL LINES IN-SERVICE	22
TABLE 2.a – NYISO to ISO-NE INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026	23
ALL LINES IN-SERVICE	23

TABLE 2.b – ISO-NE to NYISO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026	24
ALL LINES IN-SERVICE	24
TABLE 3.a – NYISO to PJM INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026	25
ALL LINES IN-SERVICE	25
TABLE 3.b – PJM to NYISO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026	26
ALL LINES IN-SERVICE	26
TABLE 4 – IESO to NYISO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026	27
ALL LINES IN-SERVICE	27
TABLE 5 – NYISO to IESO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026	28
ALL LINES IN-SERVICE	28

Executive Summary

This NYISO 2026 Summer Operating Study was conducted as a seasonal review of the projected thermal transfer capability for the Summer 2026 capability period. The study evaluates the projected internal and external thermal transfer capabilities for the forecasted peak load and dispatch conditions studied.

Internal interface's transfer limits have changed due to network alterations in the New York Control Area (NYCA) and modeling assumptions. Notable findings for the Summer 2026 operating period are:

- **Total East** thermal transfer limit decreased by 150 MW mainly due to the redistribution of flows because of the Champlain Hudson Power Express (CHPE) project being modeled in service.
- **Central East** interface thermal transfer limit decreased by 50 MW mainly due to a rating change on the New Scotland – Knickerbocker (2) 345 kV line.
- **UPNY-ConEd** thermal transfer limit increased by 250 MW mainly due to the redistribution of flows because of the CHPE project being modeled in service.
- **UPNY-SENY** thermal transfer limit increased by 225 MW mainly due to the redistribution of flows because of the CHPE project being modeled in service.
- **Sprainbrook Dunwoodie S.** thermal transfer limit decreased by 350 MW mainly due to the redistribution of flows because of the CHPE project being modeled in service.
- **Moses South** thermal transfer limit increased by 250 MW mainly due to the modeling of the Smart Path Connect (SPC) project.

External interface transfer limits have changed due to network alterations in the NYCA and neighboring areas and changes in modeling assumptions. Notable findings for the Summer 2026 operating period are:

- The **PJM to New York** thermal transfer limit decreased by 75 MW due to decrease in ratings of the Hillside – East Towanda (70) 230 kV line.

INTRODUCTION

The NYISO 2026 Summer Operating Study report, prepared by the Operating Studies Task Force (OSTF) at the direction and with the guidance of the System Operations Advisory Subcommittee (SOAS), highlights the thermal analysis evaluation for the Summer 2026 capability period. This analysis indicates that, for the Summer 2026 capability period, the New York interconnected bulk power system can be operated reliably in accordance with the New York State Reliability Council (NYSRC) Reliability Rules and the NYISO System Operating Procedures.

Thermal transfer limits cited in this report are based on the forecasted peak load and dispatch assumptions and are intended as a guide to system operations. Changes in generation dispatch or load patterns that significantly change pre-contingency line loadings may change limiting contingencies or limiting facilities, resulting in higher or lower interface transfer capabilities.

System Operators should monitor the critical facilities noted in the included tables along with other limiting conditions while maintaining bulk power system transfers within secure operating limits.

PURPOSE

The purpose of the study is to determine:

- The total transfer capabilities (TTC) between NYISO and adjacent areas including IESO, PJM and ISO-NE for normal conditions in the summer periods. The TTC is calculated based on NERC TPL-001-5.1 Category P1 and P2 contingencies and a set of selected Category P4, P5 and P7 contingencies.
- The TTC between NYISO and adjacent areas including IESO, PJM and ISO-NE for emergency conditions in the summer periods. The TTC is calculated based on NERC TPL-001-5.1 Category P1 and P2 contingencies.

System Operating Limit (SOL) Methodology

As identified in “ FAC-011-4_Methodology for Establishing SOL for the Operations Horizon_20250401”, the NYSRC Reliability Rules provide the documented methodology for use in developing System Operating Limits (SOLs) within the NYISO Reliability Coordinator Area. NYSRC Reliability Rules require compliance with all North American Electric Reliability Corporation (NERC) Standards and Northeast Power Coordinating Council (NPCC) Standards and Criteria. NYSRC Rule C.1, Tables C-1 and C-2 address the contingencies to be evaluated and the performance requirements to be applied. Rule C.1 also incorporates by reference Attachment H, NYISO

Transmission Planning Guideline #3-1, “Guideline for Stability Analysis and Determination of Stability-Based Transfer Limits” of the NYISO Transmission Expansion and Interconnection Manual.

STUDY PARTICIPANTS

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Brian	Gordon	NYSEG			
Jin	Hao	NYSEG			
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Jason	Kampschaefer	LS Power			
Phil	Tatro	Transco			
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(LIPA)

SYSTEM REPRESENTATION AND BASE STUDY ASSUMPTIONS

System Representation

The representation was developed from the NYISO Data Bank and assumes the forecasted summer coincident peak load of 31,578 MW. The other NPCC Balancing Areas and adjacent regional representations were obtained from the RFC-NPCC Summer 2026 Reliability Assessment power flow base case and have been updated to reflect the Summer 2026 capability period. The base case model includes:

- The NYISO Transmission Operator area
- All Transmission Operator areas contiguous with NYISO
- All system elements modeled as in service
- All generation represented
- Phase shifters in the regulating mode in accordance with the NYISO Available Transfer Capability Implementation Document (ATCID)
- The NYISO Load Forecast
- Transmission Facility additions and retirements
- Generation Facility additions and retirements
- Remedial Action Scheme (RAS) models where currently existing or projected for implementation within the studied time horizon.
- Series compensation for each line at the expected operating level unless specified otherwise in the ATCID.
- Facility Ratings as provided by the Transmission Owner and Generator Owner

Generation Resource Changes

The status and dispatch level of	
Madison Windpower	- 11.6 MW
Gowanus	-320 MW
Narrows	-352 MW
Danskammer	-532 MW
High Acres LFG	-9.6 MW
Total Retirements	-1225.2 MW

Additions	
Homer Solar Energy Center	+90 MW
Arthur Kill Energy Storage	+15 MW
Baron Winds II	+120 MW
Total Additions	+225 MW

Transmission Facilities Changes

Significant facility changes since the Summer 2025 capability period include:

- Moses-Reynold (MR3) 115 kV modeled out of service
- Station 23 – Station 42 (920) 115 kV modeled out of service
- Farragut (TR11 & TR12) 345kV modeled out of service
- E13 St. (BK17) 345/69 kV transformer modeled out of service
- E13 St. (BK112) 138/69 kV transformer modeled out of service
- Laurel Lake – Goudey (952) 115 kV tie line returned in service
- Champlain Hudson Power Express (CHPE) HVDC addition
- Hertel – Astoria Annex (G180) 345 kV addition
- Astoria Annex – Rainey (Y19) 345 kV line addition
- Smart Path Connect: Adirondack 345 kV station, Austin Road 345 kV station, Haverstock 345 kV station upgrade from 230 kV and Willis Annex 230 kV addition
- Gowanus PAR (R10) 345 kV addition
- Byron and Graham 345 kV substation additions

The addition of the Smart Path Connect project impacts Moses South interface definition. The project includes upgrades from the existing Adirondack 230 kV station to 345 kV, the addition of Austin Road 345 kV station, the addition of Haverstock 345 kV station, and the addition of Willis

Annex 230 kV station. The CHPE HVDC project connects Hertel Station to Astoria Annex 345 kV. Along with the HVDC line, a 345 kV line (Y19) was added, connecting the Astoria Annex 345 kV station, to the Rainey 345 kV station.

The addition of the Byron and Graham 345 kV stations impacts the Dysinger East interface definition. Byron and Graham intersect the existing Dysinger – Henrietta (DH1 & DH2) 345 kV lines, respectively, changing the interface definition to Dysinger – Byron (DB1) 345 kV and Dysinger – Graham (DG1) 345 kV.

System Representation

The Siemens PTI PSS™E and PowerGEM's Transmission Adequacy and Reliability Assessment (TARA) software packages were used to calculate the thermal limits based on Normal and Emergency Transfer Criteria as defined in the NYSRC Reliability Rules. The thermal transfer limits presented have been determined for all transmission facilities scheduled in service during the Summer 2026 period.

The schedules used in the base case power flow for this analysis assumed a net flow of 0 MW from Public Service Electric & Gas (PSE&G) to Consolidated Edison via the PAR transformer controlling the Linden – Goethals interconnection, and 0 MW on the South Mahwah – Waldwick circuits from Consolidated Edison to PSE&G, controlled by the PARs at Waldwick. The Hopatcong – Ramapo (5018) 500 kV circuit is scheduled to transfer 316 MW from PJM to New York. The four Ontario – Michigan PARs are modeled in service and scheduled to a 0 MW transfer. These schedules are consistent with the scenarios developed in the RFC-NPCC Inter-Regional Reliability Assessment for Summer 2026, and the MMWG Summer 2025 power flow base cases. The Dysinger – East Stolle Rd. PAR is scheduled to 400 MW from Dysinger to East Stolle Rd. The series reactors on the Sprain Brook – W. 49th St. (M51 and M52) 345 kV and Dunwoodie – Mott Haven (71 and 72) 345 kV, the Packard – Sawyer (77 and 78) 230 kV, and the E. 179th St. – Hell Gate (15055) 138 kV circuits are in service in the base case. The series reactors on the Farragut – Gowanus (41 and 42) 345 kV and the Sprain Brook – East Garden City (Y49) 345 kV cable are bypassed. The series capacitors on the Marcy – Coopers Corners (UCC2-41) 345 kV, the Edic – Fraser (EF24-40) 345 kV and the Fraser – Coopers Corners (33) 345 kV circuits are in service in the base case. The series capacitors on the Knickerbocker – Pleasant Valley (Y57) 345 kV circuit are modeled in service in the base case.

The NYISO Niagara generation was modeled using a 50-50 split on the 230 kV and 115 kV generators. The total output for the Niagara facility was modeled at 2,100 MW. The Ontario Niagara generation was modeled at an output of 1,300 MW.

DISCUSSION

Resource Assessment

Load and Capacity Assessment

The forecast peak demand for the Summer 2026 capability period is 31,578 MW¹. This forecast is 107 MW (0.34%) higher than the forecast of 31,471 MW for the Summer 2025 capability period, and 2,378 MW (7.0%) lower than the all-time New York Control Area (NYCA) seasonal peak of 33,956 MW, which occurred on July 19, 2013.

The Installed Capacity (ICAP) requirement for the Summer capability period is 39,315 MW based on the NYSRC 24.5% Installed Reserve Margin (IRM) requirement for the 2026 Capability Year. NYCA generation capacity for Summer 2026 is 38,027 MW, and net external capacity purchases of 3,168.5 MW have been secured for the Summer period. The combined capacity resources represent a 30.5% margin above the forecast peak demand of 31,578 MW. These values were taken from the 2026 Load & Capacity Data report produced by the NYISO.

The Summer assumed unavailable capacity is 6,164 MW, and includes forced outages and deratings based on historical performance of all generation in the NYCA. For Summer 2025, the equivalent forced outage rate assumed was 4.21%.

¹ Forecast Coincident Peak Demand (50th percentile baseline forecast)

Cross-State Interfaces

Transfer Limit Analysis

This report summarizes the results of thermal transfer limit analyses performed on a power system representation modeling the forecast peak load conditions for Summer 2026. Normal and emergency thermal limits were calculated according to Normal and Emergency Transfer Criteria definitions in the NYISO’s RC SOL Methodology and NYSRC Reliability Rules. For this assessment period, the most severe single generation contingency is Nine Mile Point 2 at 1,310 MW. Facility ratings applied in the analysis were from the online MW ratings in the EMS, and are detailed in Appendix D.

Figure 1 presents a comparison of the Summer 2026 thermal transfer limits to Summer 2025 thermal transfer limits. Changes in these limits from previous years are due to changes in the base case load flow generation and load patterns that result in different pre-contingency line loadings, changes in limiting contingencies, changes in circuit ratings, or line status. Appendix H presents a summary comparison of Cross-State thermal transfer limits between Summer 2026 and 2025, with limiting element/contingency descriptions. Significant differences in these thermal transfer limits are discussed below.

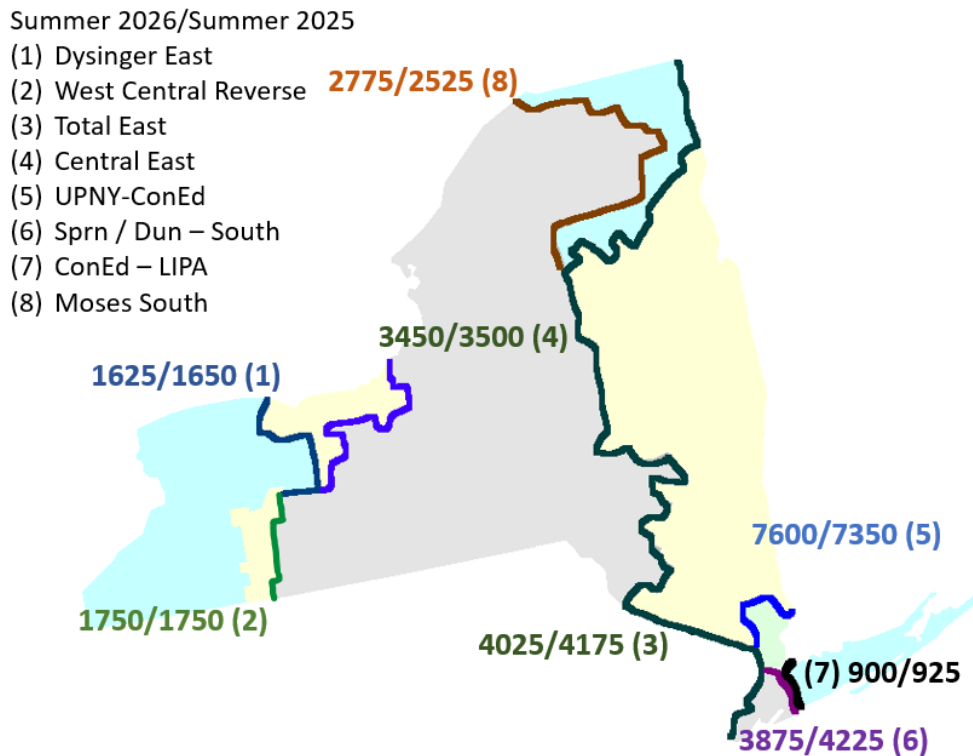


Figure 1 – Cross-State Thermal Transfer Limits

Total East (3) interface thermal transfer limit decreased by 150 MW mainly due to the redistribution of flows because of the Champlain Hudson Power Express (CHPE) project being modeled in service.

Central East (4) interface thermal transfer limit decreased by 50 MW mainly due to a rating change on the New Scotland – Knickerbocker (2) 345 kV line.

UPNY-ConEd (5) interface thermal transfer limit increased by 250 MW due to the redistribution of flows because of the CHPE project being modeled in service.

UPNY-SENY interface thermal transfer limit increased by 225 MW mainly due to the redistribution of flows because of the CHPE project being modeled in service.

Sprainbrook – Dunwoodie South (6) interface thermal transfer limit decreased by 350 MW mainly due to the redistribution of flows because of the CHPE project being modeled in service.

Moses South (8) interface thermal transfer limit increased by 250 MW mainly due to the Smart Path Connect (SPC) project modeled as in service.

West Woodbourne Transformer

The Total-East interface may be limited at significantly lower transfer levels for certain contingencies that result in overloading of the West Woodbourne 115/69 kV transformer. Should the West Woodbourne tie be the limiting facility, it may be removed from service to allow higher Total-East transfers. Over-current relays are installed at West Woodbourne to protect for contingency overloads.

ConEd – LIPA Transfer Analysis

Normal transfer capabilities were determined using the base case generation dispatch and PAR settings as described in Appendix B. Emergency limits are dispatch dependent and can vary based on generation and load patterns in the LIPA system.

For emergency transfer capability analysis, the PARs controlling the LIPA import were adjusted to allow for maximum transfer capability into LIPA:

ConEd – LIPA PAR Settings

	Normal	Emergency
Jamaica – Lake Success 138 kV	-200 MW	81 MW
Jamaica – Valley Stream 138 kV	-100 MW	227 MW
Sprain Brook – E. Garden City 345 kV	637 MW	637 MW

ISO-NE – LIPA PAR Settings

Norwalk Harbor – Northport 138 kV	100 MW	286 MW
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The PAR schedules referenced above and the ConEd - LIPA transfer assessment assume the following loss factors and oil circulation modes in determination of the facility ratings for the 345 kV cables:

- Y49 has a 70% loss factor in slow oil circulation mode.
- Y50 has a 70% loss factor in rapid circulation mode.

Emergency Transfer via the 138 kV PAR-controlled Jamaica ties between Con Edison and LIPA

Con Edison and LIPA have determined possible emergency transfer levels via the Jamaica - Valley Stream (901) 138 kV and Jamaica - Lake Success (903) 138 kV PAR-controlled ties that could be used to transfer emergency power between the two entities during peak conditions. The emergency transfer levels were calculated in both directions, for system peak load conditions with all transmission lines in service and all generation available at full capacity.

ConEd to LIPA emergency assistance

Based on analysis of historical conditions performed by LIPA and Con Edison, Con Edison anticipates being able to supply a total flow up to 308 MW of emergency transfer from Con Edison to Long Island, if requested, via the ties.

LIPA to ConEd emergency assistance

LIPA anticipates being able to supply a total flow up to 505 MW of emergency transfer from Long Island to Con Edison, if requested, via the ties under ideal conditions (i.e. all lines and generation in service, imports via Neptune, Norwalk Harbor to Northport Cable - NNC and Cross Sound Cable - CSC).

Transfer Limits for Outage Conditions

Transfer limits for scheduled outage conditions are determined by the NYISO Scheduling and Market Operations groups. The NYISO Real-Time Dispatch system monitors the EHV transmission continuously to maintain the secure operation of the interconnected EHV system.

Transient Stability and Voltage Transfer Limits

The interface transfer limits shown in “SUMMARY OF RESULTS – THERMAL TRANSFER LIMIT ANALYSIS” section are the results of a thermal transfer limit analysis only. Transient stability and voltage interface transfer limits for all lines in service and line outage conditions are summarized and available through the NYISO website located under “Interface Limits & Op Studies” at the following link: <https://www.nyiso.com/reports-information>

Thermal Transfer Capabilities with Adjacent Balancing Areas

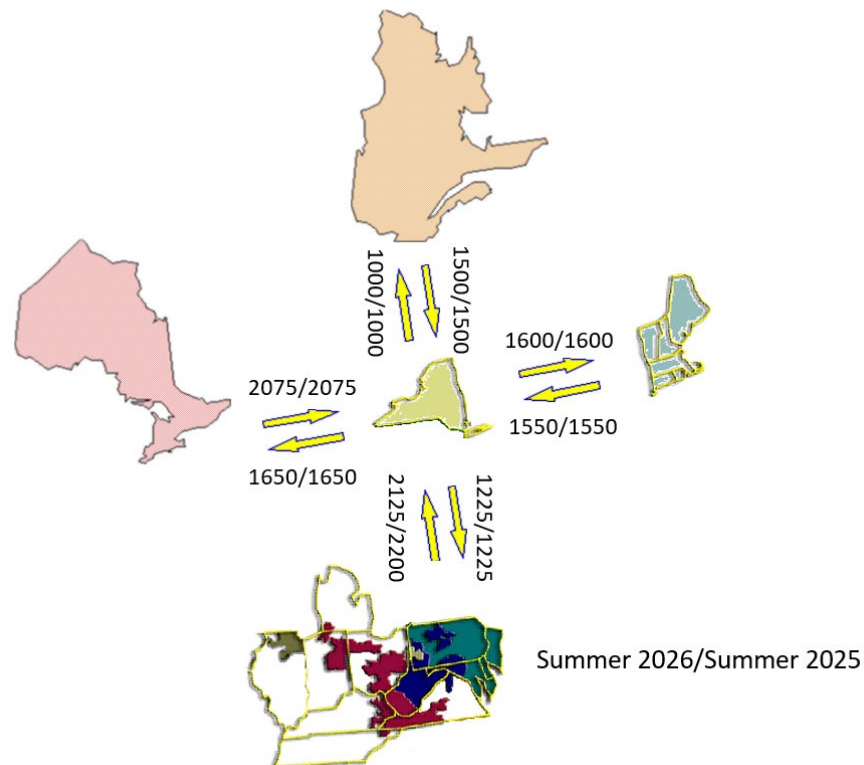


Figure 2 – Inter-Area Thermal Transfer Capabilities²

PJM - NYISO thermal transfer limit decreased by 75 MW due to decrease in ratings of the

² TE-NY transfer capabilities shown in Figure 2 are not thermal transfer limits; for more information see page 19

Hillside – East Towanda (70) 230 kV line.

Thermal transfer limits between New York and adjacent Balancing Areas also are determined in this analysis. These transfer limits supplement, but do not change, existing internal operating limits. There may be facilities internal to each system that may reduce the transfer limits between Balancing Areas. Reductions due to these situations are the responsibility of the respective reliability authority. Some of these potential limitations are indicated in the summary tables by “Reliability Coordinating Facility” limits, which supplement the “Direct Tie” limits between the Balancing Areas. Transfer conditions within and between neighboring Balancing Areas can have a significant effect on inter- and intra-Area transfer limits. Coordination between Balancing Areas is necessary to provide optimal transfer while maintaining the reliability and security of the interconnected systems.

New York – New England Analysis

New England Transmission/Capacity Additions

Transmission

For the Summer 2026 study period, there are no major transmission projects coming into service that will significantly impact the New York – New England transmission capability.

Capacity

In the New England Control Area, from April through September 2026, the only major generation project expected to become commercial is Three Rivers Solar, with a capacity of 100MW. Approximately 148.74 MW total of Solar Photovoltaic, 65.996 MW of Gas Turbines, 9.66 MW of Fuel Cell, 18.3 MW of on-shore wind and 49.429 MW of Battery Alternative Energy Resources are anticipated to become commercial by the end of October 2026.

There are no significant planned retirements anticipated during this period.

Thermal Transfer Limit Analysis

The transfer limits between the NYISO and ISO New England for normal and emergency transfer criteria are summarized in Tables 2.a and 2.b.

Cross-Sound Cable

The Cross-Sound Cable (CSC) is an HVDC merchant transmission facility connecting the New Haven Harbor 345 kV (United Illuminating, ISO-NE) station and Shoreham 138 kV (LIPA, NYISO) station. It has a design capacity of 330 MW. This facility is not metered as part of the NYISO – ISO-

NE interface, and HVDC transfers are independent of transfers between the NYISO and ISO-NE.

Smithfield – Salisbury 69 kV

CHG&E and Eversource will normally operate the Smithfield - Salisbury 69 kV (FV/690) line closed. The maximum allowable flow on this line is 31 MVA based on limitations in the Eversource 69 kV system. When the ISO-NE to NYISO transfer is greater than approximately 400 MW, the line will be opened due to post contingency limits within the Eversource system. The FV/690 line has directional over-current protection that will trip the FV/690 line in the event of an overload when the flow is into ISO-NE. No protection exists to trip the FV/690 line in the event of an overload when the flow is into NYISO.

Northport – Norwalk Harbor Cable Flow

Flow on the NNC Norwalk Harbor to Northport facility is controlled by PAR transformer at Northport. As system conditions vary, the scheduled flow on the NNC may be used to optimize transfer capability between the Balancing Areas. The thermal transfer limits are presented in Table 2 for different PAR schedule assumptions on the Northport – Norwalk Harbor interconnection.

Whitehall – Blissville 115 kV

The PAR transformer on the K7 line at the VELCO Blissville substation will control pre-contingency flow between the respective stations. For the analyses, the pre-contingency schedule is 25 MW from Blissville (ISO-NE) to Whitehall (NYISO). The scheduled flow may be adjusted to protect the National Grid local 115 kV transmission south of Whitehall for 345 kV contingency events in southern Vermont pursuant to joint operating procedure developed by VELCO, National Grid, ISO-NE and NYISO.

Plattsburgh – Sand Bar 115 kV (i.e. PV20)

The PAR transformer on the PV20 line at the VELCO Sandbar substation was modeled with a pre-contingency flow of approximately 100 MW on the PV20 tie. This modeling assumption was premised upon common operating understandings between ISO-NE and the NYISO given local operating practice on the Moses – Haverstock - Willis Annex – Plattsburgh 345/230 kV transmission corridor. ISO-NE's analysis examined and considered New England system limitations given this modeling assumption and did not examine generation dispatch or system performance on the New York side of the PV20 tie.

Dover - Long Mountain 345 kV

The Dover – Long Mountain (398) 345 kV transmission line is a PAR controlled intertie between New York – New England. The line is equipped with two 345 kV PAR transformers located at Dover 345 kV station along with a normally open by-pass, which provides controllable flow of the Dover - Long Mountain (398) 345 kV tie line. The Dover PAR is expected to deliver 30% of the scheduled interchange between NYISO and ISO-NE in the direction of flow as per the NYISO and ISO-NE Dover PARs Operating Protocols. This assumption is used in the evaluation of interface New York – New England transfer limits which can be found in Tables 2a and 2b.

New York - PJM Analysis

Thermal Transfer Limit Analysis

The transfer limits for the NYISO – PJM and PJM – NYISO interfaces are summarized in Tables 3a and 3b respectively of the “SUMMARY OF RESULTS – THERMAL TRANSFER LIMIT ANALYSIS” section of this report. The Marion-Farragut 345 kV B and C cables are expected to remain open, and the Waldwick E, F, O and Goethals A paths are expected to deliver a percentage of the scheduled interchange as referenced in the NYISO-PJM JOA. The Hopatcong – Ramapo 500 kV (5018) circuit is scheduled in accordance with the " TCC Manual Attachment T (TCC Market PJM - NYISO Interconnection Scheduling Protocol)", February 28th, 2020.

Opening of PJM - New York 115 kV Ties as Required

The normal criteria thermal transfer limits presented in “SUMMARY OF RESULTS – THERMAL TRANSFER LIMIT ANALYSIS” section were determined for an all-lines in-service condition. The 115 kV interconnections between First Energy East and New York (Warren – Falconer, North Waverly – East Sayre, and Laurel Lake – Westover) may be opened in accordance with NYISO and PJM Operating Procedures provided that this action does not cause unacceptable impact on local reliability in either system. Over-current protection is installed on the Warren - Falconer and the North Waverly – East Sayre 115 kV circuits; either of these circuits would trip by relay action for an actual overload condition. There is no overload protection on the Laurel Lake - Westover circuit, but it may be opened by operator action if there is an actual or post-contingency overload condition. However, opening the Laurel Lake – Westover tie could potentially cause local thermal and pre- and post-contingency voltage violations for the 34.5 kV distribution system within First Energy East transmission zone. Sensitivity analysis performed indicated that the thermal and voltage conditions were exacerbated for conditions that modeled high simultaneous interface flows from NY to PJM and NY to Ontario.

DC Ties

Neptune DC tie is expected to be available. Hudson Transmission Project (HTP) DC tie is expected to be available.

Variable Frequency Transformer (VFT) Tie

The Variable Frequency Transformer Tie is a transmission facility connecting the Linden 230 kV (PSEG, PJM) to Linden 345 kV (ConEd, NYISO). For the summer 2026, Linden VFT will have 330 MW non-firm withdrawal right and 300 MW firm injection rights into PJM market.

Ontario – New York Analysis

Thermal Transfer Limit Analysis

The thermal transfer limits between the NYISO and Ontario's Independent Electricity System Operator (IESO) Balancing Areas for normal and emergency transfer criteria are presented in Tables 4 and 5. The NYISO Niagara generation was modeled at an output of 2,100 MW.

The Ontario – New York ties at St. Lawrence, L33P and L34P PARs were controlling to 0 MW in all four scenarios. The interconnection flow limit across these ties is 300 MW, as presented in Table 4.3 "Interconnection Flow Limits" from the document "Reliability Outlook Tables" available at:

https://www.ieso.ca/-/media/Files/IESO/Document-Library/planning-forecasts/reliability-outlook/ReliabilityOutlookTables_2025Dec.xlsx

Transient Stability Limitations

Transient stability limits for the NYISO - IESO interconnection are reported in "NYPP-OH TRANSIENT STABILITY TESTING REPORT on DIRECT TIE TRANSFER CAPABILITY - OCTOBER 1993" available at:

https://www.nyiso.com/documents/20142/3694079/NYPP-OH_1993-2.pdf/2e21484a-22cf-739a-7a10-69dfd69f5d58

Ontario – Michigan PARs

All the PARs on the four transmission lines interconnecting Ontario and Michigan are in service and regulating. For this study, the PARs were scheduled to regulate at 0 MW.

Impact of the Queenston Flow West (QFW) Interface on the New York to Ontario Transfer Limit

The QFW interface is defined as the sum of the power flows through the 230 kV circuits out of Beck. QFW is the algebraic sum of the following:

- Total generation in the Niagara zone of Ontario including the units at the Beck #1, #2 &

Pump Generating Stations, Thorold and Decew Falls GS

- The total load in the zone
- The import from New York

For a given QFW limit, the import capability from New York depends on the generation dispatch and the load in the Niagara zone. The Ontario Niagara generation is set to 1,300 MW. The import capability from New York can be increased by decreasing generation in the Ontario Niagara zone contingent on water and tourism regulations, increasing demand in the Ontario Niagara zone, or both.

TransÉnergie–New York Interface

Thermal transfer limits between TransÉnergie (Hydro-Quebec) and New York are not analyzed as part of this study. Respecting the NYSRC and NYISO operating reserve requirements, the maximum allowable delivery into the NYCA from TransÉnergie on the Chateauguay – Massena (MSC-7040) 765 kV tie is 1310 MW. However, in real-time, the total flow is limited to 1800 MW; the additional flow is a “wheel-through” transaction to another Balancing Authority Area. Maximum delivery from NYCA to Quebec on the 7040 line is 1000 MW. The maximum allowable delivery into the NYCA from TransÉnergie on the Champlain Hudson Power Express (CHPE) HVDC tie is 1250 MW. The maximum delivery from NYCA to Quebec on the CHPE line is 0 MW.

The Dennison Scheduled Line represents a 115 kV dual-circuit transmission line that interconnects the New York Control Area to the Hydro-Quebec Control Area at the Dennison Substation, near Massena, NY. The Dennison Line has a nominal north to south capacity of 270 MW in summer, into New York, and a nominal south to north capacity of 200 MW into Quebec. The south to north capacity will be limited to 100 MW into Quebec until such time as HQ-Cedars obtains an updated Presidential Permit (PP24) to reflect the updated transfer capability as identified in the HQ-Cedars Export Study report as approved by the Operating Committee

SUMMARY OF RESULTS – THERMAL TRANSFER LIMIT ANALYSIS

Table 1 – NYISO CROSS-STATE INTERFACE THERMAL TRANSFER LIMITS

Table 1A

- Dysinger East
- West Central Reverse
- UPNY – SENY
- UPNY – ConEd
- Sprain Brook – Dunwoodie So.
- ConEd – LIPA Transfer Capability

Table 1B – MSC-7040 Flow Sensitivity

- Central East
- Total East
- Moses South

Table 2A – NYISO to ISO-NE INTERFACE THERMAL TRANSFER LIMITS

- Northport-Norwalk Flow Sensitivity
- Cricket Valley Energy Center I/S and O/S

Table 2B – ISO-NE to NYISO INTERFACE THERMAL TRANSFER LIMITS

- Northport-Norwalk Flow Sensitivity
- Cricket Valley Energy Center I/S and O/S

Table 3A – NYISO to PJM INTERFACE THERMAL TRANSFER LIMITS

- 3-115 kV Ties I/S and O/S
- Hudson – Farragut (B3402) 345 kV and Marion – Farragut (C3403) 345 kV lines and associated PARs I/S and O/S

Table 3B – PJM to NYISO INTERFACE THERMAL TRANSFER LIMITS

- 3-115 kV Ties I/S and O/S
- Hudson – Farragut (B3402) 345 kV and Marion – Farragut (C3403) 345 kV lines and associated PARs I/S and O/S

Table 4 – IESO to NYISO INTERFACE THERMAL TRANSFER LIMITS

Table 5 – NYISO to IESO INTERFACE THERMAL TRANSFER LIMITS

TABLE 1.a – NYISO CROSS-STATE INTERFACE THERMAL TRANSFER LIMITS - SUMMER 2026
ALL LINES IN-SERVICE

	Dysinger East ₂	West Central Reverse	UPNY - SENY	UPNY - ConEd	Sprain Brook Dunwoodie - So.	ConEd - LIPA ₁
NORMAL	1625 MW (1)	1750 MW (3)	6125 MW (5)	7600 MW (7)	3875 MW (8)	900 MW (9)
EMERGENCY	1900 MW (2)	2125 MW (4)	6525 MW (6)	9900 MW (10)	3875 MW (8)	1425 MW (9)

LIMITING ELEMENT		RATING		Loss of	LIMITING CONTINGENCY
(1)	Niagara – Dysinger (ND1) 345 kV	@LTE	1512 MW	L/O	Niagara – Dysinger (ND2) 345 kV
(2)	Niagara – Dysinger (ND1) 345 kV	@STE	1695 MW	L/O	Niagara – Dysinger (ND2) 345 kV
(3)	Volney – Clay (6) 345 kV	@LTE	1380 MW	L/O	Clay – Independence (26) 345 kV
(4)	Pitsford – Sta. 89 (25) 115 kV	@STE	142 MW	L/O	Rochester – Pannell (RP2) 345 kV
(5)	Middletown TAP – Shoemaker (BK114) 345/138 kV	@LTE	550 MW	L/O	Rock Tavern – Sugarloaf (76) 345 kV Ramapo – Sugarloaf (76) 345 kV Sugarloaf (BK1112) 345/138 kV Rock Tavern – Ramapo (77) 345 kV
(6)	Cooper’s Corner – Middletown TAP (CCRT-34) 345 kV	@STE	1792 MW	L/O	Dolson – Rock Tavern (DART-44) 345 kV
(7)	Lovett – Buchanan (Y88) 345 kV	@LTE	1894 MW	L/O	Pleasant Valley – Wood St (F30) 345 kV Pleasant Valley – Wood St (F31) 345 kV
(8)	Dunwoodie – Mott Haven (71) 345 kV	@NORM	707 MW		Pre-Contingency Loading
(9)	Newbridge - Locust Grove (558) 138 kV	@NORM	323 MW		Pre-Contingency Loading
(10)	Pleasant Valley – Wood St. (F30) 345 kV	@NORM	1720 MW		Pre-Contingency Loading

Note

1: LIPA rating for Y50 circuit is based on 70% loss factor and rapid oil circulation.

2: Dysinger East limit used the NYSRC Rules Exception No. 13 – Post Contingency Flows on Niagara Project Facilities

TABLE 1.b – NYISO CROSS-STATE INTERFACE THERMAL TRANSFER LIMITS - SUMMER 2026
ALL LINES IN-SERVICE

	MSC-7040 FLOW 800 MW	MSC-7040 FLOW 1310 MW	MSC-7040 FLOW 1600 MW
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CENTRAL EAST

NORMAL	3375 MW (1)	3450 MW (1)	3500 MW (1)
EMERGENCY	3950 MW (2)	4075 MW (2)	4125 MW (2)

TOTAL EAST

NORMAL	3975 MW (3)	4025 MW (3)	4100 MW (3)
EMERGENCY	5075 MW (4)	5150 MW (4)	5200 MW (4)

MOSES SOUTH_{1,2}

NORMAL	2600 MW (5)	2775 MW (5)	3000 MW (5)
EMERGENCY	2800 MW (6)	3025 MW (6)	3250 MW (6)

LIMITING ELEMENT		RATING		LIMITING CONTINGENCY
(1)	New Scotland – Knickerbocker (2) 345 kV	@LTE	1882 MW	L/O Dolson Ave – Rock Tavern (DART-44) 345 kV Rock Tavern – Middletown TAP (CCRT-34) 345 kV Cooper’s Corner – Middletown TAP (CCRT-34) 345 kV Shoemaker – Middletown TAP (29) 138 kV
(2)	Fraser – Cooper’s Corner (33) 345 kV	@STE	1793 MW	L/O Marcy – Cooper’s Corner (UCC2-41) 345 kV
(3)	Ferndale – West Woodbourne (959) 115 kV	@STE	77 MW	L/O Dolson Ave – Rock Tavern (DART-44) 345 kV
(4)	Cooper’s Corner – Middletown TAP (CCRT-34) 345 kV	@STE	1792 MW	L/O Dolson – Rock Tavern (DART-44) 345 kV
(5)	Browns Falls – Taylorville (3) 115 kV	@STE	138 MW	L/O Browns Falls – Taylorville (4) 115 kV
(6)	Colton – Flat Rock (2) 115 kV	@STE	140 MW	L/O Browns Falls – Higley (1) 115 kV

Note

- 1: Moses South limit used the NYSRC Rules Exception No. 10 – Post Contingency Flows on Marcy AT-1 Transformer
 2: Moses South limit used the NYSRC Rules Exception No. 12 – Post Contingency Flows on Marcy AT-2 Transformer

TABLE 2.a – NYISO to ISO-NE INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026
ALL LINES IN-SERVICE

	DIRECT TIE	NYISO FACILITY	ISO-NE FACILITY	DIRECT TIE	NYISO FACILITY	ISO-NE FACILITY
Cricket Valley Energy Center Out of Service			Cricket Valley Energy Center in Service (1087 MW)			

Northport –Norwalk 0MW

NORMAL	2075 MW (1)	1625 MW (2)	2075 MW (3)	2075 MW (1)	1600 MW (2)	2050 MW (3)
EMERGENCY	2375 MW (4)	1625 MW (2)	2350 MW (5)	2375 MW (4)	1600 MW (2)	2350 MW (5)

Northport –Norwalk 100MW

NORMAL	2075 MW (1)	1625 MW (2)	2075 MW (3)	2075 MW (1)	1600 MW (2)	2050 MW (3)
EMERGENCY	2375 MW (4)	1625 MW (2)	2350 MW (5)	2375 MW (4)	1600 MW (2)	2350 MW (5)

Northport –Norwalk 200 MW

NORMAL	2075 MW (1)	1625 MW (2)	2075 MW (3)	2075 MW (1)	1600 MW (2)	2050 MW (3)
EMERGENCY	2375 MW (4)	1625 MW (2)	2350 MW (5)	2375 MW (4)	1600 MW (2)	2350 MW (5)

LIMITING ELEMENT		RATING		LIMITING CONTINGENCY	
(1)	Alps – Berkshire (393) 345 kV	@LTE	1697 MW	L/O	Sandy Pond – Nicolet (HVDC) 345 kV Sandbar Reactor 115 kV
(2)	Albany – Trinity (5) 115 kV	@STE	262 MW	L/O	Greenbush – Regeneron (9) 115 kV
(3)	Sandbar Reactor (REA) 115 kV	@STE	249 MW	L/O	Northfield – Berkshire (312) 345 kV Alps – Berkshire (393) 345 kV Berkshire 345/115 kV Transformer Northfield Generation
(4)	Alps – Berkshire (393) 345 kV	@NORM	1463 MW		Pre-Contingency Loading
(5)	Ashfield – Montague (1242) 115 kV	@STE	148 MW	L/O	Northfield – Berkshire (312) 345 kV

Note

- 1: The Northport – Norwalk Harbor (NNC) flow is positive in the direction of transfer
- 2: The Northport – Norwalk Harbor (NNC) line is no longer part of the New York – New England Interface Definition
- 3: Internal Non-Secured Limit: A limit to secure internal transmission elements that are not secured with pricing in the NYISO markets.

TABLE 2.b – ISO-NE to NYISO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026

ALL LINES IN-SERVICE

	DIRECT TIE	NYISO FACILITY	ISO-NE FACILITY	DIRECT TIE	NYISO FACILITY	ISO-NE FACILITY
Cricket Valley Energy Center Out of Service			Cricket Valley Energy Center in Service (1087 MW)			
Northport –Norwalk 0MW						
NORMAL	1725 MW (1)	1575 MW (2)	1950 MW (5)	1700 MW (1)	1550 MW (2)	1975 MW (5)
EMERGENCY	1875 MW (4)	1575 MW (2)	2175 MW (3)	1850 MW (4)	1550 MW (2)	2175 MW (3)
Northport –Norwalk 100MW						
NORMAL	1725 MW (1)	1575 MW (2)	1950 MW (5)	1700 MW (1)	1550 MW (2)	1975 MW (5)
EMERGENCY	1875 MW (4)	1575 MW (2)	2175 MW (3)	1850 MW (4)	1550 MW (2)	2175 MW (3)
Northport –Norwalk 200 MW						
NORMAL	1725 MW (1)	1575 MW (2)	1950 MW (5)	1700 MW (1)	1550 MW (2)	1975 MW (5)
EMERGENCY	1875 MW (4)	1575 MW (2)	2175 MW (3)	1850 MW (4)	1550 MW (2)	2175 MW (3)

	LIMITING ELEMENT	RATING		LIMITING CONTINGENCY
(1)	Eastover Road – Bear Swamp (E205W) 230 kV	@LTE 480 MW	L/O	Alps – Berkshire (393) 345 kV
(2)	Reynolds Rd. 345/115 kV (BK2) Transformer	@STE 646 MW	L/O	Alps – Knickerbocker (6) 345 kV
(3)	Ashfield – Montague (1242) 115 kV	@STE 148 MW	L/O	Northfield Mt. – Berkshire (312) 345 kV
(4)	Eastover Road – Bear Swamp (E205W) 230 kV	@STE 525 MW	L/O	Alps – Berkshire (393) 345 kV
(5)	Ashfield – Montague (1242) 115 kV	@LTE 131 MW	L/O	Northfield Mt. – Berkshire (312) 345 kV

Note

- 1: The Northport – Norwalk Harbor (NNC) flow is positive in the direction of transfer
- 2: The Northport – Norwalk Harbor (NNC) line is no longer part of the New England – New York Interface Definition
- 3: Internal Non-Secured Limit: A limit to secure internal transmission elements that are not secured with pricing in the NYISO markets.

TABLE 3.a – NYISO to PJM INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026
ALL LINES IN-SERVICE

	DIRECT TIE	NYISO FACILITY	PJM FACILITY	DIRECT TIE	NYISO FACILITY	PJM FACILITY
B&C PARs In-Service			B&C PARs Out-Of-Service			
NORMAL	1700 MW (7)	1075 MW (2)	2200 MW (8)	1550 MW (7)	925 MW (2)	2050 MW (8)
EMERGENCY	1700 MW (7)	1225 MW (9)	2200 MW (8)	1550 MW (7)	1050 MW (9)	2050 MW (8)
3x 115 kV Out-of-Service						
NORMAL	1800 MW (1)	1225 MW (2)	2825 MW (3)	1625 MW (1)	1050 MW (2)	2650 MW (3)
EMERGENCY	1800 MW (4)	2000 MW (5)	3250 MW (6)	1625 MW (4)	1825 MW (5)	3075 MW (6)

	LIMITING ELEMENT	RATING	LIMITING CONTINGENCY
(1)	Hillside – East Towanda (70) 230 kV	@LTE 519 MW	L/O Watercure – Mainesburg (30) 345 kV
(2)	Oakdale (BK 2) 345/115 kV Transformer	@LTE 454 MW	L/O Oakdale – Watercure (31) 345 kV Oakdale (BK 3) 345/115/34.5 kV Transformer
(3)	Everet Drive – South Troy 115 kV	@STE 238 MW	L/O Hillside – E. Towanda (70) 230 kV E. Towanda – Canyon (ETP) 230 kV E. Towanda 230/115 kV Transformer
(4)	Hillside – East Towanda (70) 230 kV	@STE 519 MW	L/O Watercure – Mainesburg (30) 345 kV
(5)	Goudey – South Owego (961) 115 kV	@STE 143 MW	L/O Oakdale – Watercure (31) 345 kV
(6)	E. Towanda – Canyon (ETP) 230 kV	@NORM 546 MW	Pre-Contingency Loading
(7)	Laurel Lake – Goudey (952) 115 kV	@NORM 108 MW	Pre-Contingency Loading
(8)	Laurel Lake – Tiffany 115 kV	@NORM 134 MW	Pre-Contingency Loading
(9)	Oakdale – Goudey (961) 115 kV	@NORM 238 MW	Pre-Contingency Loading

Note

- 1: Emergency Transfer Capability Limits may have required line outages as described in New York – PJM Analysis Section.
- 2: PAR schedules have been adjusted in the direction of transfer.
- 3: Internal Non-Secured Limit: A limit to secure internal transmission elements that are not secured with pricing in the NYISO markets.
- 4: Goudey 115 kV Bus Tie breaker is placed in service when 115 kV tie lines are placed out-of-service.

TABLE 3.b – PJM to NYISO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026
ALL LINES IN-SERVICE

	DIRECT TIE	NYISO FACILITY	PJM FACILITY	DIRECT TIE	NYISO FACILITY	PJM FACILITY
B&C PARs In-Service			B&C PARs Out-Of-Service			
NORMAL	1550 MW (4)	1900 MW (7)	2300 MW (8)	1400 MW (4)	1750 MW (7)	2150 MW (8)
EMERGENCY	1800 MW (10)	2275 MW (5)	2300 MW (8)	1650 MW (10)	2125 MW (2)	2150 MW (8)
3x 115 kV Out-of-Service						
NORMAL	2125 MW (1)	2175 MW (2)	2350 MW (3)	1975 MW (1)	2050 MW (5)	2075 MW (3)
EMERGENCY	2125 MW (9)	2225 MW (5)	3025 MW (6)	1975 MW (9)	2050 MW (5)	2875 MW (6)

	LIMITING ELEMENT	RATING		LIMITING CONTINGENCY
(1)	Hillside – East Towanda (70) 230 kV	@LTE 519 MW	L/O	Watercure – Mainesburg (30) 345 kV
(2)	Stolle Rd. (BK3) 345/115 kV Transformer	@NORM 249 MW		Pre-Contingency Loading
(3)	Homer City – Shelocta 230 kV	@LTE 850 MW	L/O	Johnstown – Seward (HCJ) 230 kV Homer City – Seward (HCS) 230 kV Seward 230/115/22 kV Transformer Seward Unit 1 @ 499.8 MW
(4)	East Sayre – North Waverly (956) 115 kV	@STE 127 MW	L/O	Hillside – East Towanda (70) 230 kV Hillside – Watercure (69) 230 kV Hillside 230/115 kV Transformer
(5)	Stolle Rd. (BK3) 345/115 kV Transformer	@NORM 299 MW		Pre-Contingency Loading
(6)	Lenox – North Meshoppen 115 kV	@NORM 546 MW		Pre-Contingency Loading
(7)	Chemung - Hillside (962) 115 kV	@STE 145 MW	L/O	Hillside – East Towanda (70) 230 kV Hillside – Watercure (69) 230 kV Hillside 230/115 kV Transformer
(8)	North Meshoppen – Lenox 115 kV	@NORM 134 MW		Pre-Contingency Loading
(9)	Hillside – East Towanda (70) 230 kV	@STE 519 MW	L/O	Watercure – Mainesburg (30) 345 kV
(10)	East Sayre – North Waverly (956) 115 kV	@STE 127 MW	L/O	Hillside – East Towanda (70) 230 kV

Note

- 1: Emergency Transfer Capability Limits may have required line outages as described in New York – PJM Analysis Section.
- 2: PAR schedules have been adjusted in the direction of transfer.
- 3: Internal Non-Secured Limit: A limit to secure internal transmission elements that are not secured with pricing in the NYISO markets.

TABLE 4 – IESO to NYISO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026
ALL LINES IN-SERVICE

	DIRECT TIE	NYISO FACILITY₁	IESO FACILITY
NORMAL	2075 MW (1)	2975 MW (3) ₂	2625 MW (4)
EMERGENCY	2475 MW (2)	3000 MW (5) ₂	3525 MW (6)

	LIMITING ELEMENT	RATING		LIMITING CONTINGENCY
(1)	Beck – Niagara (PA27) 230 kV	@LTE 460 MW	L/O	Beck – Niagara (PA301) 345 kV
(2)	Beck – Niagara (PA27) 230 kV	@STE 558 MW	L/O	Beck – Niagara (PA301) 345 kV
(3)	Hinman – Harris Radiator (908) 115 kV	@STE 286 MW	L/O	Robinson Rd – Stolle Rd (65) 230 kV Gardenville – Stolle Rd (66) 230 kV Stolle Rd – Sheldon (67) 230 kV
(4)	Allanburg – Mount Hope (Q30) 220 kV	@LTE 420 MW	L/O	Burlington – Middle Port (Q23BM) 230 kV Hannon – Middle Port (Q24HM) 230 kV
(5)	Hinman – Harris Radiator (908) 115 kV	@STE 286 MW	L/O	Robinson Rd – Stolle Rd (65) 230 kV
(6)	SouthCot – Mount Hope 220 kV	@NORM 317 MW		Pre-Contingency Loading

Note

- 1: Ontario - NYISO limit used the NYSRC Rules Exception No. 13 – Post Contingency Flows on Niagara Project Facilities
- 2: Internal Non-Secured Limit: A limit to secure internal transmission elements that are not secured with pricing in the NYISO markets.

TABLE 5 – NYISO to IESO INTERFACE THERMAL TRANSFER LIMITS – SUMMER 2026
ALL LINES IN-SERVICE

	DIRECT TIE	NYISO FACILITY	IESO FACILITY₁
NORMAL	1650 MW (1) ₂		1500 MW (2)
EMERGENCY	1950 MW (3) ₂		1900 MW (4)

	LIMITING ELEMENT	RATING	LIMITING CONTINGENCY
(1)	Beck – Niagara (PA27) 230 kV	@LTE 460 MW L/O	Beck – Niagara (PA301) 345 kV Niagara 345/230 kV Transformer (AT3)
(2)	Beck – Hannon (Q24HM) 220 kV	@LTE 481 MW L/O	Middleport – Beach - Carluke (Q25BM) 220 kV Beck – Middleport – Beach (Q29HM) 220 kV
(3)	Beck – Niagara (PA27) 230 kV	@NORM 400 MW	Pre-Contingency Loading
(4)	Beck – Hannon (Q24HM) 220 kV	@NORM 403 MW	Pre-Contingency Loading

Note

- 1: This limit can be increased by reducing generation or increasing demand in the Niagara zone of Ontario contingent on water and tourism regulations. See Ontario – New York Analysis for discussion.
- 2: This limit can be increased by adjusting the PAR schedule on the Dysinger – East Stolle Rd (DES-1) 345 kV line