

National Grid 2023 Local Transmission Plan

Mark Forchilli, PE
November 21, 2023

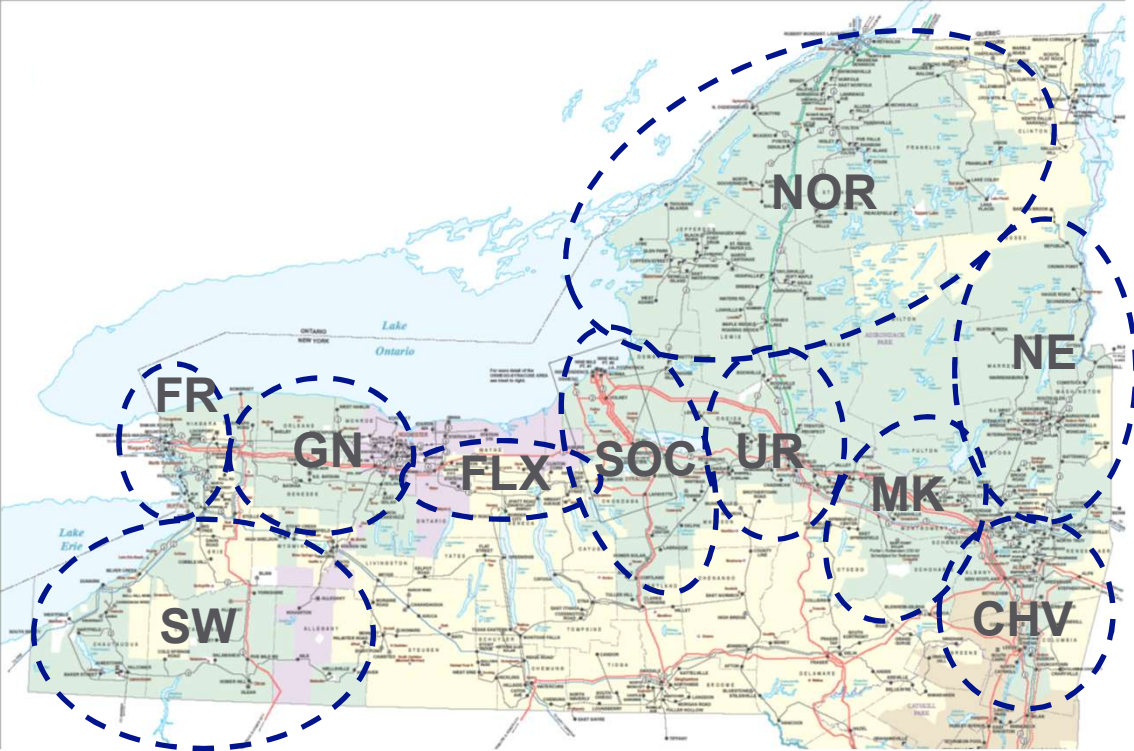
nationalgrid



National Grid Statistics - NY

| | |
|------------------------------------|-----------|
| # Customers | 1,676,866 |
| LSE Square Miles | 25,013 |
| Transmission Ckt Miles | 5,720 |
| Tx 69 & 115kV Ckt Miles | 4,592 |
| # Tx Substations | 192 |
| # Dx Substations | 515 |
| # Power of Transformers | 1,169 |
| # Circuit of Breakers | 4,835 |
| NYISO Zones | A - F |

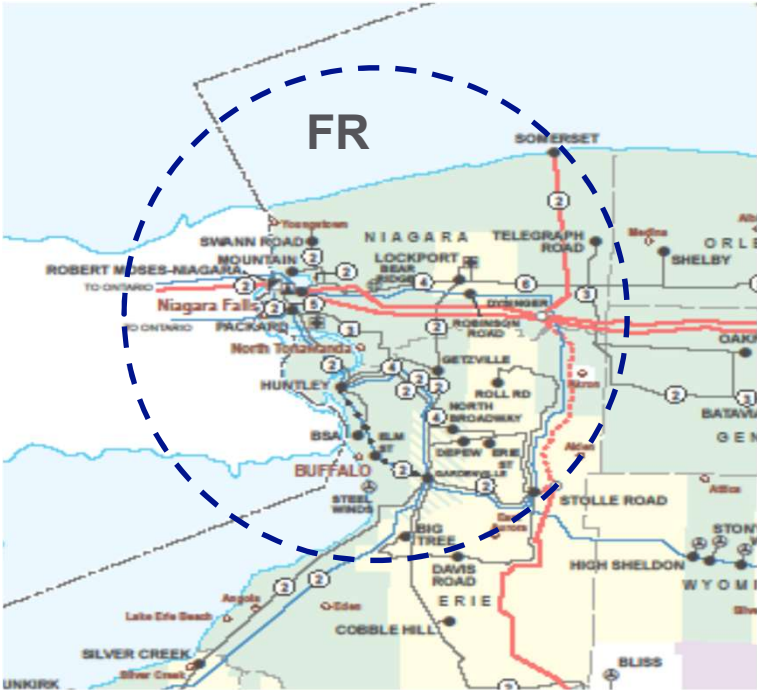
National Grid Planning Areas



Base Map from NYISO

- FR - Frontier
- SW - Southwest
- GN - Genesee
- FLX - Finger Lakes
- SOC - Syracuse/Oswego/Cortland
- NOR - Northern
- UR - Utica/Rome
- MK - Mohawk
- NE - Northeast
- CHV - Capital/Hudson Valley

Frontier



Buffalo-Gardenville- Niagara Falls-
Lockport
(Erie & Niagara Counties)

Base Map from NYISO

Frontier (1 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---|---|------------------------------|--------------------|----------------|--------------------------|
| Royal Ave (New Harper) Station replacement | Replace old Harper station with 115/34.2kV Royal Station | Not Applicable | Not Applicable | Completed | 05/2021 |
| Seneca TR5 Replacement | 115-23kV transformer replacement | Not Applicable | Not Applicable | Completed | 07/2021 |
| Niagara-Packard 191 Reconductor | 115kV, ~3.7 miles (entire line) | Not Applicable | Not Applicable | Completed | 11/2021 |
| Niagara-Packard 192 Reconductor | 115kV, ~3.7 miles (entire line) | Not Applicable | Not Applicable | Completed | 11/2021 |
| Niagara-Packard 193/194 Reconductor | 115kV, Reconductor ~3.7miles (entire double circuit line) | Not Applicable | Not Applicable | Completed | 06/2022 |
| Kensington TR4 & 5 Replacement | 115-23kV transformers at Kensington | Not Applicable | Not Applicable | Completed | 06/2023 |
| Lockport 108 Alt Breaker | Install R264 at Lockport for line 108 and operate as alternate breaker for line 108 at Lockport | Not Applicable | Not Applicable | Completed | 09/2023 |

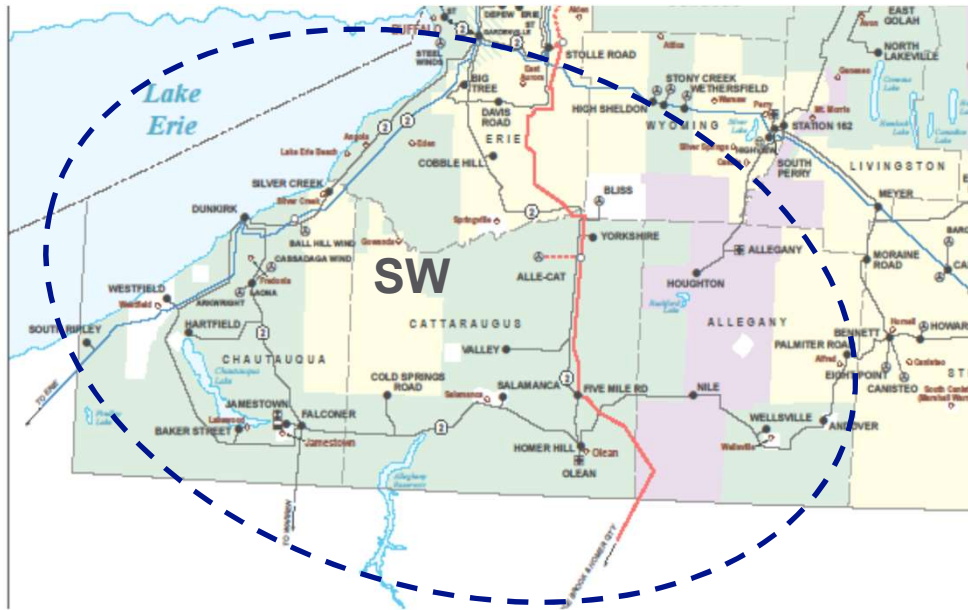
Frontier (2 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|---|------------------------------|--------------------|--------------------|--------------------------|
| Lockport-Mortimer 103/104 Reconfiguration | Reconductor 4 spans of Lockport-Mortimer 103 & 104 between structures 55 and 57 with 795 ACSR. Swap 103/104 positions at Lockport station | Not Applicable | Not Applicable | Planned | 04/2024 |
| Elm St TR2 Replacement | 240-24kV transformer replacement including relay configuration upgrades | Not Applicable | Not Applicable | Under Construction | 11/2025 |
| Industrial Customer 115kV (Niagara) | The Customer has requested 115kV service to replace their existing 12kV service. | Not Applicable | Not Applicable | Planned | 11/2025 |
| Packard Replace OCBs | The replacement of the three 115kV OCBs with SF6 breakers. | Not Applicable | Not Applicable | Planned | 02/2026 |
| Packard-Huntley 130/133 | 115kV, ~9 miles of double circuit reconductoring (Sta 78 to Huntley) | Not Applicable | Not Applicable | Planned | 01/2027 |

Frontier (2 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|--|------------------------------|--------------------|----------------|--------------------------|
| Huntley-Lockport 36/37 Resiliency | Add breakers on Huntley side of Getzville, move Ayer Rd Taps | Not Applicable | Not Applicable | Planned | 04/2027 |
| Packard-Gardenville Reconfiguration 115kV Lines 180, 182, 181-922 | Install additional breakers at Gardenville, reactors at Packard, bussing of existing 181, build Line 922 to Gardenville, Niagara-Gardenville 180 on old 181/91 | Not Applicable | Not Applicable | Planned | 02/2028 |
| Lockport Station Rebuild | Replace existing 115kV Lockport station with greenfield station breaker-and-a-half, including extending the transmission lines to new greenfield location. | Not Applicable | Not Applicable | Planned | 11/2029 |
| Katherine Street Terminal Station 115kV/23kV | New terminal station connected to the existing Ohio Street 145/146 lines | Not Applicable | Not Applicable | Planned | 07/2031 |

Southwest



South of Buffalo/Gardenville,
Dunkirk, Olean

Southern Erie, Chautauqua,
Cattaraugus, Allegany
Counties

Base Map from NYISO

Southwest (1 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---|---|------------------------------|--------------------|----------------|--------------------------|
| Q759 KCE NY6 T-line | 115kV tap off Line 150 for Developer 20MW BESS | Completed | Not Applicable | Completed | 06/2022 |
| Big Tree Interconnect Line 151 | 115kV, Big Tree Substation - AVANGRID Station Expansion, loop-in-loop-out with Line 151 | Not Applicable | Not Applicable | Completed | 12/2022 |
| Dunkirk Station Rebuild | Rebuild Dunkirk Transmission Station/Asset Separation | Not Applicable | Not Required | Completed | 12/2022 |
| Industrial Customer 115kV (Chautauqua) | (2) 115kV, ~200 feet Taps to Customer Station | Not Applicable | Not Applicable | Completed | 12/2022 |
| Industrial Customer 115kV (Erie) | 115kV Taps to Customer Station | Not Applicable | Not Applicable | Completed | 02/2023 |

Southwest (2 of 3)

| Project Name | Description | NYISO Interconnecti on Status | Article VII Status | Project Status | Expected In-Service Date |
|---|---|-------------------------------|--------------------|--------------------|--------------------------|
| Q505 Ball Hill Wind Project | Install facilities to interconnect the Wind generation facility to the 230 kV via a new three (3) breaker ring bus substation (Stebbins Road Station) | Completed | Not Applicable | Completed | 04/2023 |
| Industrial Customer Upgrade 34.5kV | Add 34.5kV breaker and associated equipment to Machias Station. | Not Applicable | Not Applicable | Under Construction | 12/2023 |
| Nile Hill Upgrades on Line 157 | Replace switches and 900 feet of conductor with 795 ACSR between structure 288 and 292 (CLCPA) | Not Applicable | Not Applicable | Planned | 01/2024 |
| Q596 Alle Catt II Wind Project | Install facilities to interconnect the Invenergy Wind project with new (3) breaker ring bus substation (Lime Lake Road Station). | Completed | Not Applicable | Planned | 04/2025 |
| Dunkirk-Falconer 160 Rebuild/CCR | 115kV replace ~180 towers, including correcting conductor clearance | Not Applicable | Not Applicable | Planned | 06/2026 |

Southwest (3 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|--|------------------------------|--------------------|--------------------|--------------------------|
| Gardenville-Dunkirk 141/142 Rebuild (North) | 115kV Rebuild Gardenville to North Angola with 795 ACSR (~20 miles) | Not Applicable | Required | Under Construction | 06/2026 |
| Dunkirk-Falconer Resiliency | Add line sectionalizing scheme to Berry Road and Baker Street stations for customer resiliency, bypass around West Ashville station for breaker installation at West Ashville. | Not Applicable | Not Applicable | Planned | 07/2027 |
| Homer Hill Station Asset replacement | Replace five 115kV & 34.kV Oil Circuit Breakers with SF6 breakers | Not Applicable | Not Applicable | Planned | 06/2028 |
| Gardenville Dunkirk 141/142 (South) | 115kV Rebuild North Angola to Dunkirk with 795 ACSR (~20 miles) | Not Applicable | Required | Planned | 06/2031 |
| Dunkirk-Laona 161/162 Reconductor | 115kV Reconductor approximately 5 miles (CLCPA) | Not Applicable | Not Applicable | Planned | 06/2026 |

Genesee



Base Map from NYISO

Lockport, Batavia, Avon, Mortimer

Eastern Niagara, Orleans, Genesee, Wyoming, Livingston, Monroe, Ontario Counties

Genesee (1 of 3)

| Project Name | Description | NYISO Interconnecti on Status | Article VII Status | Project Status | Expected In-Service Date |
|---|--|-------------------------------|--------------------|--------------------|--------------------------|
| Rochester Airport Cables 111,113,114 | Replace 115kV cables | Not Applicable | Not Required | Completed | 02/2023 |
| Batavia Replace OCBs | 115kV replace 5 OCB's with SF6 breakers, disconnects associated replaced as well | Not Applicable | Not Applicable | Completed | 08/2023 |
| Mortimer Substation Upgrade | Relay upgrades for AVANGRID | Not Applicable | Not Required | Under Construction | 11/2023 |
| Mumford 115kV Terminal Upgrade | 115kV, Upgrade four disconnects and station connections, including new cap bank (CLCPA) | Not Applicable | Not Required | Under Construction | 01/2024 |
| North Leroy 115kV Terminal Upgrade | 115kV, Replace two existing disconnects, including the connected conductor spans (CLCPA) | Not Applicable | Not Required | Planned | 04/2024 |

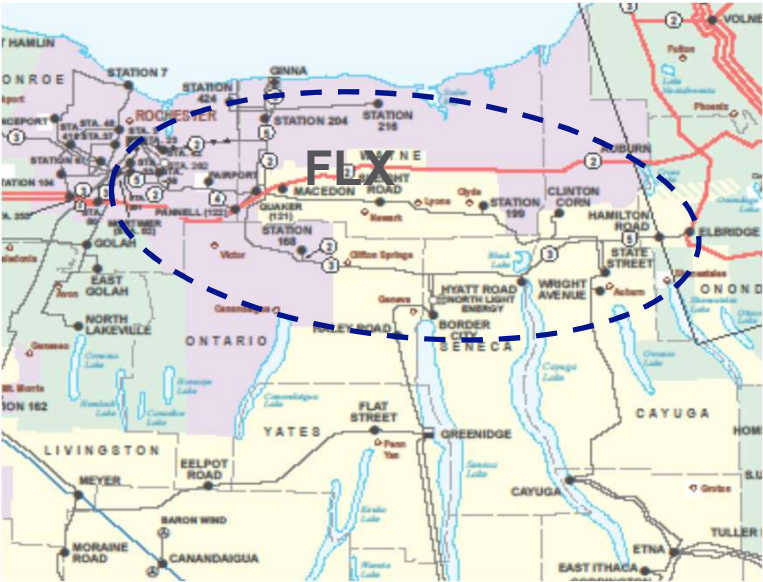
Genesee (2 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|--|------------------------------|--------------------|--------------------|--------------------------|
| Industrial Customer 115kV (Genesee) | 115kV Transmission Service to New Customer. Relocation of the section of the Lockport-Batavia Line 112 between structures 173 and 188 including a new service line from the new station to customer. The station is being built connected to NYPA's 345kV. | Completed | Not Required | Under Construction | 12/2024 |
| Lockport - Batavia 112 Rebuild | Rebuild 115kV from Lockport to Oakfield (~22ckt miles) | Not Applicable | Required | Planned | 04/2027 |
| Mortimer-Golah 109 | Upgrade the existing 69kV bay to 115kV at Mortimer and replace the 69kV Line 109 with a new under 10 mile 115kV circuit on a new alignment. | Not Applicable | Not Required | Planned | 06/2027 |
| Mortimer-Golah 110 | Rebuild approximately 10 miles to 795MCM 26/7 ACSR double-bundled or equivalent | Not Applicable | Not Required | Planned | 06/2027 |

Genesee (3 of 3)

| Project Name | Description | NYISO Interconnecti on Status | Article VII Status | Project Status | Expected In-Service Date |
|--|--|-------------------------------|--------------------|----------------|--------------------------|
| Southeast Batavia-Golah 119 Rebuild | 115kV, Rebuild approximately 15.9 miles of the SE Batavia - Golah #119. In order to complete this project a bypass is required on the LN119. (CLCPA) | Not Applicable | Not Required | Planned | 04/2028 |
| Golah Sub Rebuild | 115kV, Rebuild Golah Transmission Substation to accommodate a new source to East Golah and N Lakeville stations (CLCPA) | Not Applicable | Not Required | Planned | 05/2028 |

Finger Lakes



Base Map from NYISO

Mortimer – Elbridge National Grid Transmission

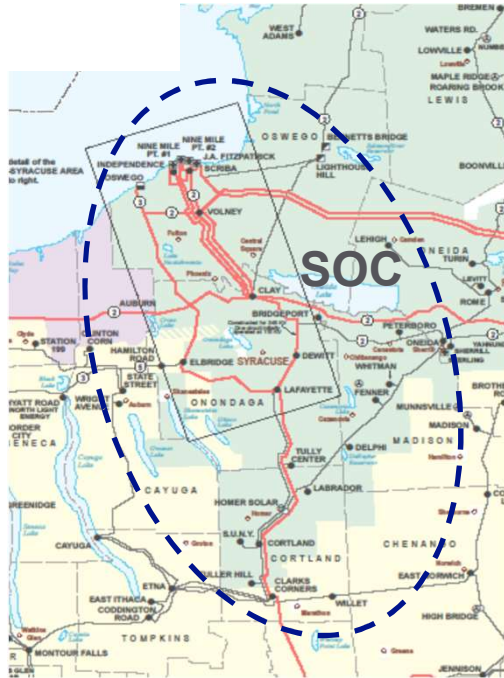
AVANGRID & Municipal Distribution Loads

Monroe, Wayne, Ontario, Seneca, Cayuga, Onondaga counties

Finger Lakes (1 of 1)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|---|------------------------------|--------------------|--------------------|--------------------------|
| Pittsford Sta 056 Interconnection | 115kV loop-in-and-out Mortimer-Pannell 24 to existing AVANGRID Station 056 (Pittsford) using 795 ACSR, new relay packages to be installed | Not Applicable | Not Applicable | Under Construction | 12/2023 |
| Hook Rd 127 Interconnection | Install a new structure and conductors in 115kV Mortimer-Elbridge Line 2 at Hook Road Substation (AVANGRID) 127 to loop in-and-out Line 2 creating two lines. | Not Applicable | Not Applicable | Planned | 06/2024 |
| Farmington 168 Interconnection | Remove the existing Taps connecting to Farmington (AVANGRID) from Lines 7 and 4/4A. Loop Lines 2 and 4/4A in-an-and out to create four new lines. | Not Applicable | Not Applicable | Planned | 12/2024 |
| Mortimer-Pannell 24/25 Rebuild | 115kV, Rebuild Mortimer- Pannell 24/25 ~16 miles | Not Applicable | Required | Planned | 03/2029 |

Syracuse/Oswego/Cortland



Elbridge – Oswego – Oneida -
Cortland

Oswego, Onondaga, Cortland,
Madison Counties

Base Map from NYISO

SOC (1 of 5)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|---|------------------------------|--------------------|--------------------|--------------------------|
| Oswego Station Rebuild | Replace various 115kV and 34.5kV assets. | Not Applicable | Not Applicable | Completed | 06/2021 |
| Volney-Clay 6 Terminal Equipment | Upgrade 345kV Terminal Equipment at Clay | Not Applicable | Not Applicable | Completed | 05/2022 |
| Fenner Line 3 & 8 Terminal Upgrades | Upgrade Terminal Equipment on Lines 3&8 (CLCPA) | Not Applicable | Not Applicable | Under Construction | 10/2023 |
| Oswego Station 345kV Asset Separation | Remove NG assets in the generation plant and put in new Control House. Also replace deteriorated equipment. | Not Applicable | Not Applicable | Under Construction | 12/2023 |
| Tilden Line 18 Terminal Upgrades | Upgrade Terminal Equipment (CLCPA) | Not Applicable | Not Applicable | Planned | 02/2024 |
| Clay-Woodard 17 Reactor | Install 115kV series reactor at Woodard | Not Applicable | Not Applicable | Under Construction | 05/2024 |

SOC (2 of 5)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|--|------------------------------|--------------------|----------------|--------------------------|
| Tilden R180 | Replace Tilden breaker R180 with new Siemens vacuum breakers | Not Applicable | Not Applicable | Planned | 05/2024 |
| Tilden - Cortland Line 18 Clearance | Upgrade spans to remove Clearance limit (CLCPA) | Not Applicable | Not Applicable | Planned | 08/2024 |
| Sky High Solar | Interconnect to National Grid's 115kV Tilden-Cortland Line 18 | Not Applicable | Not Applicable | Planned | 08/2024 |
| Teall-Oneida Resiliency | Reconfigure supplies to Bridgeport and Petersboro to connect to both #2 and #5 | Not Applicable | Not Applicable | Planned | 09/2024 |
| Clay - Wetzel Resiliency | Add a breaker at Clay and build approximately 2000 feet of 115kV to create radial line to Wetzel Rd from a portion of LHH-Clay Wetzel Road Tap | Not Applicable | Not Applicable | Planned | 10/2024 |

SOC (3 of 5)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|---|------------------------------|--------------------|----------------|--------------------------|
| S Oswego - Clay Resiliency | Install Automatic Line Sectionalizing schemes at Whitaker and Gilbert Mills. | Not Applicable | Not Applicable | Planned | 03/2025 |
| Volney Station MEMCO Replacement | Replace 345kV switches 111, 113, 121, 123, 191, 193, 201, 203, 211, 213, 61, and 63 | Not Applicable | Not Applicable | Planned | 03/2026 |
| Reconductor Cortland-Clarks Corners | Reconductor approximately 5 spans | Not Applicable | Not Applicable | Planned | 05/2026 |
| Mallory 115kV Breakers | Add breakers to Mallory Road for Resiliency | Not Applicable | Not Applicable | Planned | 07/2026 |

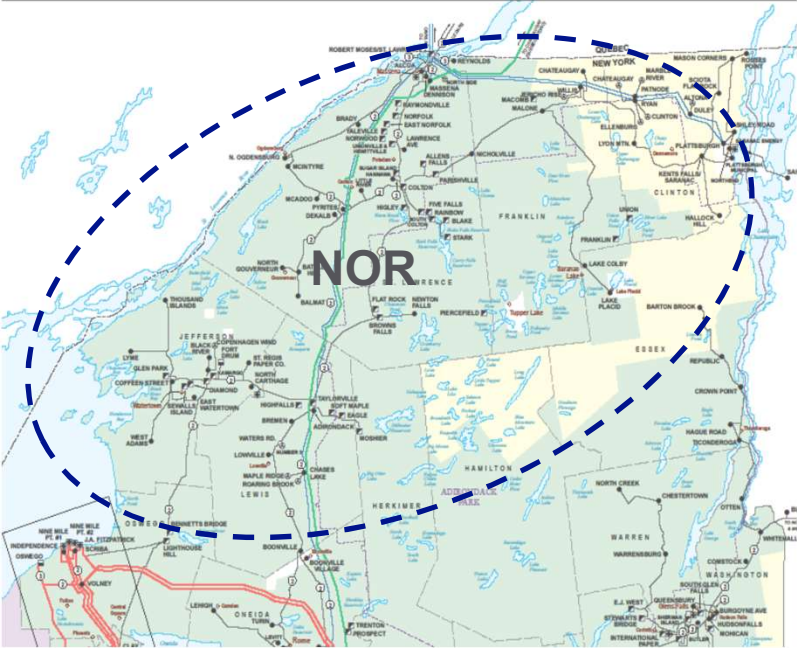
SOC (4 of 5)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---------------------------------------|---|------------------------------|--------------------|----------------|--------------------------|
| Clay Substation CLCPA Upgrades | Relocate bussed portion of #7 to second line into #5 position. Replace six breakers and 14 gang-operated disconnects. New 2000A breaker between R180 and R115. New set of 3 115kV CCVTs and 1 new set of 2000A gang operated disconnects with arching horns. Overhead strain bus and connections between breakers and nearby disconnects will be replaced in #5, #6, and #7 bays. | Not Applicable | Not Applicable | Planned | 11/2026 |
| South Oswego Station Upgrades | Replace two breakers, four disconnect and two station connections. Replace relaying on Lines 1 & 6. | Not Applicable | Not Applicable | Planned | 10/2027 |
| Tar Hill Station | 115kV, new Breaker-and-a-Half substation to replace Lighthouse Hill | Not Applicable | Not Applicable | Planned | 04/2028 |
| Delphi Terminal Upgrades | Upgrade Terminal Equipment (CLCPA) | Not Applicable | Not Applicable | Planned | 12/2029 |

SOC (5 of 5)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---|---|------------------------------|--------------------|----------------|--------------------------|
| Cortland Terminal Upgrades | Upgrade Terminal Equipment (CLCPA) | Not Applicable | Not Applicable | Planned | 12/2029 |
| East Ave Station (CLCPA) | Construct a new 115kV ring-bus station on a greenfield location. | Not Applicable | Not Applicable | Planned | 03/2030 |
| Lighthouse Hill-Clay 7 rebuild | Rebuild the approximately 27 mile bussed LLH-Clay 7 as two single circuits using double-bundled 795 ACSR 26/7 | Not Applicable | Required | Planned | 03/2030 |
| Lighthouse Hill – South Oswego Rebuild (CLCPA) | Rebuild approximately 27 miles of double circuit and 2 miles of single circuit with double-bundled 795MCM 26/7 ACSR or equivalent | Not Applicable | Required | Planned | 03/2030 |
| Maiden Lane (CLCPA) | Build a new 115kV breaker-and-a-half station connecting to six transmission lines on a greenfield site. | Not Applicable | Not Applicable | Planned | 03/2030 |

Northern



Malone-Potsdam-Watertown-Croghan

Jefferson, Lewis, Saint Lawrence, Franklin, Clinton, Essex, Herkimer Counties

Base Map from NYISO

Northern (1 of 4)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|--|------------------------------|--------------------|----------------|--------------------------|
| Taylorville Term Equipment Upgrade | Replace station connections and CTs | Not Applicable | Not Applicable | Completed | 05/2022 |
| Flat Rock | 115kV, Replace ~200ckt ft of conductor | Not Applicable | Not Applicable | Planned | 03/2025 |
| Boonville Substation Upgrades (CLCPA) | Install two 115kV phase angle regulators (PARs) on the 115kV Boonville-Rome #3 & #4 lines at the future Boonville Greenfield Station location. Four new 115kV circuit breakers with disconnects. | Not Applicable | Not Applicable | Planned | 03/2025 |
| Malone PAR | Install Phase Angle Regulating Transformer on Malone - Wills 1-910 | Not Applicable | Not Applicable | Planned | 07/2025 |
| Indian River – Lyme Junction | Build approximately 9 mile transmission line from Indian River station to Lyme Tap-Station including a new breaker and 2 switches at Indian River Substation. | Not Applicable | Required | Planned | 03/2027 |

Northern (2 of 4)

| Project Name | Description | NYISO Interconnecti on Status | Article VII Status | Project Status | Expected In-Service Date |
|--|--|-------------------------------|--------------------|----------------|--------------------------|
| Boonville Rebuild | Rebuild the Boonville Station on a greenfield site as a Breaker-and-a-half. | Not Applicable | Not Applicable | Planned | 03/2028 |
| Black River – LHH Rebuild (CLCPA) | Rebuild approximately 36 miles of double circuit to two single circuits with double-bundled 795MCM 26/7 ACSR or equivalent | Not Applicable | Required | Planned | 04/2029 |
| Alcoa Station Upgrade (CLCPA) | Replace all existing station connection conductors and the existing 115kV bus. | Not Applicable | Not Applicable | Planned | 12/2029 |
| Colton Station Term Equip Upgrade (CLCPA) | Replace limiting terminal equipment associated with Lines 2,3,5 and 8. | Not Applicable | Not Applicable | Planned | 12/2029 |
| Dennison Station Upgrades (CLCPA) | Replace the existing conductor between the take-off structure and disconnects associated with lines 1, 2, 4, 5 and 12. | Not Applicable | Required | Planned | 12/2029 |

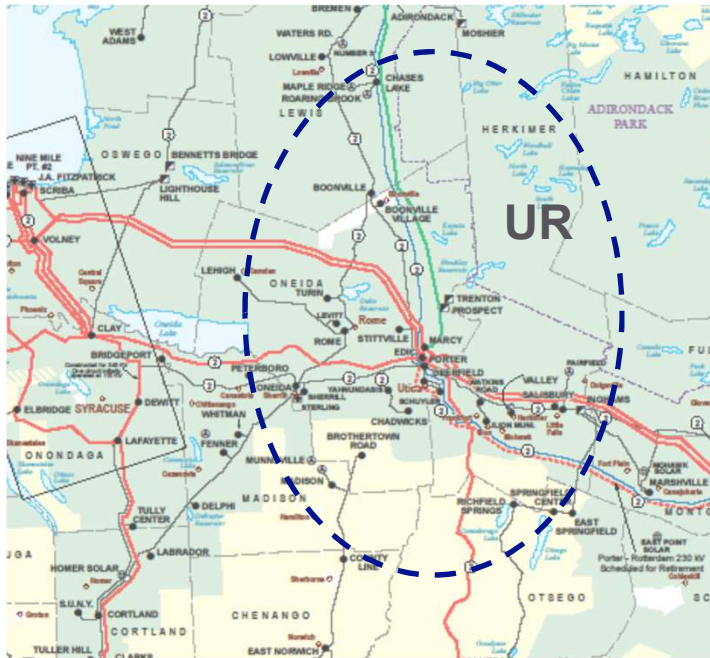
Northern (3 of 4)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|---|------------------------------|--------------------|----------------|--------------------------|
| Black River Substation Upgrades (CLCPA) | Replace the five existing 115kV circuit breakers R10, R20, R30, R50, and R80 with new circuit breakers, disconnect switches, and station connections. Install one new 115kV series bus tie breaker. | Not Applicable | Not Applicable | Planned | 12/2029 |
| Coffeen-Black River Rebuild (CLCPA) | Rebuild the approximately 8 mile line with double-bundled 795MCM 26/7 ACSR or equivalent | Not Applicable | Not Required | Planned | 03/2030 |
| Black River – Taylorville Rebuild (CLCPA) | Rebuild approximately 26 miles of double circuit to two single circuits with double-bundled 795MCM 26/7 ACSR or equivalent | Not Applicable | Required | Planned | 03/2030 |
| Taylorville – Boonville Rebuild (CLCPA) | Rebuild approximately 34 miles of double circuit to two single circuits with double-bundled 795MCM 26/7 ACSR or equivalent | Not Applicable | Required | Planned | 03/2030 |
| Taylorville Station Rebuild Rebuild (CLCPA) | Rebuild Taylorville as a Breaker-and-a-half substation including synchronous condensers and associated equipment and transformers. | Not Applicable | Not Applicable | Planned | 03/2030 |

Northern (4 of 4)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---|---|------------------------------|--------------------|----------------|--------------------------|
| Coffeen-East Watertown Rebuild (CLCPA) | Rebuild approximately 9.5 miles to double-bundled 795 MCM 26/7 ACSR or equivalent | Not Applicable | Not Required | Planned | 03/2030 |
| Coffeen-Lyme Junction 4 Rebuild (CLCPA) | Rebuild approximately 8 miles to double-bundled 795 MCM 26/7 ACSR or equivalent | Not Applicable | Not Required | Planned | 03/2030 |
| Coffeen Synchrononous Condensers (CLCPA) | Install Synchronous Condensers with associated power transformers and equipment and buildings | Not Applicable | Not Applicable | Planned | 03/2030 |
| Colton-Malone 3 Rebuild (CLCPA) | Rebuild approximately 18 miles to double-bundled 795 MCM 26/7 ACSR or equivalent | Not Applicable | Required | Planned | 03/2030 |
| Middle Road Station (CLCPA) | Expand the existing substation to a six-breaker ring. | Not Applicable | Not Applicable | Planned | 03/2030 |

Utica/Rome



- Utica – Rome – Little Falls
- Oneida, Madison, Lewis, Herkimer Counties

Base Map from NYISO

Utica / Rome (1 of 1)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--|---|------------------------------|--------------------|----------------|--------------------------|
| EHI Segment A | Expand Edic substation to support Energy Highway Initiative Segment A | Not Applicable | Not Applicable | Completed | 10/2023 |
| Terminal Station Rebuild | Rebuild 115/13.2kV substation and 115kV line connections | Not Applicable | Not Applicable | Planned | 02/2025 |
| Oneida Station Rebuild | 115kV Station Rebuild to a breaker-and-a-half configuration and add 115kV Capacitor Bank. Replace connections to existing transmission lines. | Not Applicable | Not Applicable | Planned | 10/2026 |
| Booneville-Porter Rebuild (CLCPA) | Rebuild approximately 26 miles of existing double circuit to two single circuits | Not Applicable | Required | Planned | 03/2030 |

Mohawk



Groversville, Amsterdam, Cobleskill
Fulton, Montgomery, Schoharie,
Otsego, Schenectady Counties

Base Map from NYISO

Mohawk (1 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---|---|------------------------------|--------------------|--------------------|--------------------------|
| Mohawk Solar | New station interconnect to National Grid 115kV St. Johnsville-Marshville Line 11 via a new three-breaker ring bus stations (Seebers Lane). | Completed | Not Applicable | Completed | 10/2022 |
| Pattersonville Solar | Construction of interconnection to a 20MW solar generation facility | In Progress | Not Applicable | Completed | 12/2022 |
| Grissom Solar | Construction of interconnection to a 20MW solar generation facility 69kV | Completed | Not Applicable | Completed | 12/2022 |
| High River Solar | Construction of interconnection to a 90MW solar generation facility Inghams Rotterdam 9/12 115kV | Completed | Not Applicable | Completed | 6/2023 |
| East Point Solar | Construction of interconnection to a 50MW solar generation facility in Sharon 69kV | Completed | Not Applicable | Under Construction | 5/2024 |
| Clinton Station upgrades (CLCPA) | Upgrade limiting equipment at Clinton | Not Applicable | Not Applicable | Planned | 5/2024 |

Mohawk (2 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---|---|------------------------------|--------------------|--------------------|--------------------------|
| Tayandenega Solar | Construction of interconnection to a 20MW solar generation facility Inghams-St.Johnsville 6 115kV | In Progress | Not Applicable | Under Construction | 08/2024 |
| Schoharie-Schenectady International-Rotterdam 18/4 Rebuild | Rebuild approximately 1 mile of 69kV Lines 18/4 outside Rotterdam | Not Applicable | Not Applicable | Planned | 09/2025 |
| Rotterdam 69kV Rebuild & New Transformer | Add a second 115/69kV transformer at Rotterdam and rebuild the Rotterdam 69kV yard. | Not Applicable | Not Applicable | Planned | 09/2025 |
| New Manheim Greenfield Project | Replace Inghams Substation with a greenfield 115/46kV station. Install new Phase Angle Regulator. | Not Applicable | Not Applicable | Planned | 11/2027 |
| Saltsman Road Station (CLCPA) | Build a new 115kV five-breaker ring station on a greenfield site. | Not Applicable | Not Applicable | Planned | 01/2028 |

Mohawk (3 of 3)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---|--|------------------------------|--------------------|----------------|--------------------------|
| Marshville Station Rebuild (CLCPA) | Replace 115/69kV transformers at Marshville and upgrade terminal equipment | Not Applicable | Not Applicable | Planned | 06/2028 |
| Meco 115kV Rebuild (CLCPA) | This project will replace the existing TR1 with a new LTC transformer and install a new 115kV-69kV TR2. Circuit breakers and switches will also be replaced accordingly. | Not Applicable | Not Applicable | Planned | 12/2029 |
| New Marshville 345-115kV Station (CLCPA) | Build a new 345-115kV breaker-and-a-half station with two 345-115kV transformers and connections to existing 345kV and 115kV lines. | Not Applicable | Not Applicable | Planned | 12/2029 |
| Inghams-Rotterdam Rebuild (CLCPA) | Rebuild approximately 125 circuit miles with double-bundled 795MCM 26/7 ACSR or equivalent | Not Applicable | Required | Planned | 12/2029 |
| Stoner Station upgrades (CLCPA) | Upgrade limiting equipment at Stoner | Not Applicable | Not Applicable | Planned | 03/2030 |

Northeast



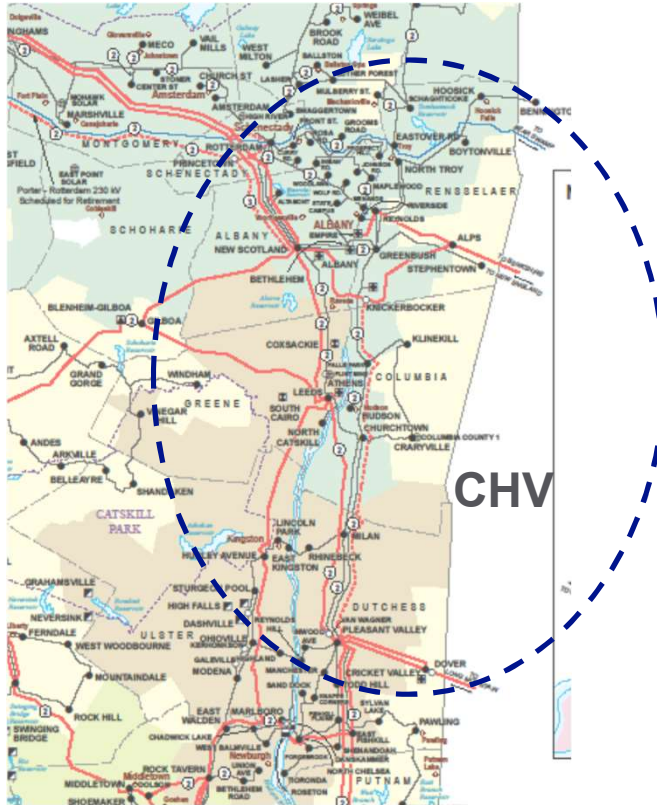
Ticonderoga, Glens Falls, Saratoga
Essex, Warren, Washington,
Saratoga Counties

Base Map from NYISO

Northeast (1 of 1)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|--------------------------------|--|------------------------------|--------------------|----------------|--------------------------|
| Mohican Station Rebuild | Replace certain 115kV and 34.5kV assets, add 115-13.2kV substation | Not Applicable | Not Applicable | Planned | 09/2025 |

Capital & Hudson Valley



Albany-Schenectady- Troy, Hudson

Albany, Schenectady, Rensselaer,
Greene, Columbia, Dutchess
Counties

Capital & Hudson Valley (1 of 1)

| Project Name | Description | NYISO Interconnection Status | Article VII Status | Project Status | Expected In-Service Date |
|---------------------------------------|--|------------------------------|--------------------|----------------|--------------------------|
| LaFarge Relocation | Relocate 115kV DCT on LaFarge Property | Not Applicable | Not Required | Completed | 12/2022 |
| Albany Steam Asset Replacement | Replace NG 115kV Assets at Albany Steam substation | Not Applicable | Not Required | Completed | 01/2023 |
| Maplewood-Menands 19/31 | ~3 mi of reconductoring and replacing breaker isolation switches for both lines at Maplewood as well as the line trap at Maplewood | Not Applicable | Not Required | Completed | 07/2023 |

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