

Figure 16: Firm Transmission Plans (from the 2021 Load and Capacity Data Report Section VII)

| [Project Queue Position] / Project Notes | Transmission Owner | Terminals | | Line Length in Miles (1) | Expected In-Service Date/Yr Prior to (2) Year | | Nominal Voltage in kV Operating/Design | | # Of ckt | Thermal Ratings (4) Summer/Winter | | Project Description / Conductor Size | Class Year / Type of Construction |
|---|--------------------------------|--------------------------|---------------------------|--------------------------|---|------|--|---------|----------|-----------------------------------|----------|---|-----------------------------------|
| <u>TIP Projects (19) (included in FERC 715 Base Case)</u> | | | | | | | | | | | | | |
| [430] | H.Q. Energy Services U.S. Inc. | Dennison | Alcoa | 3 | W | 2020 | 115 | 115 | 1 | 1513 | 1851 | 954 ACSR | OH |
| 545A | NextEra Energy Transmission NY | Dysinger (New Station) | East Stolle (New Station) | 20 | S | 2022 | 345 | 345 | 1 | 1356 MVA | 1612 MVA | Western NY - Empire State Line Project | OH |
| 545A | NextEra Energy Transmission NY | Dysinger (New Station) | Dysinger (New Station) | PAR | S | 2022 | 345 | 345 | 1 | 700 MVA | 700 MVA | Western NY - Empire State Line Project | |
| 556 | NGRID | Porter | Rotterdam | -71.8 | S | 2022 | 230 | 230 | 1 | 1105 | 1284 | AC Transmission Project Segment A/1-795 ACSR/1-1431 ACSR | |
| 556 | NGRID | Porter | Rotterdam | -72.0 | S | 2022 | 230 | 230 | 1 | 1105 | 1284 | AC Transmission Project Segment A/1-795 ACSR/1-1431 ACSR | |
| 556 | NGRID | Edic | New Scotland | -83.5 | S | 2022 | 345 | 345 | 1 | 2228 | 2718 | AC Transmission Project Segment A/2-795 ACSR | |
| 556 | NGRID | Rotterdam | New Scotland | -18.1 | S | 2022 | 115 | 230 | 1 | 1212 | 1284 | AC Transmission Project Segment A/1-1033.5 ACSR/1-1192.5 ACSR | |
| 556 | LSP/NGRID | Edic | Gordon Rd (New Station) | 69.0 | S | 2022 | 345 | 345 | 1 | 2228 | 2718 | AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS | |
| 556 | LSP/NGRID | Gordon Rd (New Station) | New Scotland | 25.0 | S | 2022 | 345 | 345 | 1 | 2228 | 2718 | AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS | |
| 556 | LSP | Gordon Rd (New Station) | Rotterdam | transformer | S | 2022 | 345/230 | 345/230 | 2 | 478 MVA | 478 MVA | AC Transmission Project Segment A | |
| 556 | LSP/NGRID | Gordon Rd (New Station) | New Scotland | -25.0 | S | 2023 | 345 | 345 | 1 | 2228 | 2718 | AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS | |
| 556 | LSP | Gordon Rd (New Station) | Princetown (New Station) | 5.2 | S | 2023 | 345 | 345 | 1 | 3410 | 3709 | AC Transmission Project Segment A/2-954 ACSS | |
| 556 | LSP | Princetown (New Station) | New Scotland | 20.2 | S | 2023 | 345 | 345 | 2 | 3410 | 3709 | AC Transmission Project Segment A/2-954 ACSS | |
| 556 | LSP/NGRID | Princetown (New Station) | New Scotland | 19.8 | S | 2023 | 345 | 345 | 1 | 2228 | 2718 | AC Transmission Project Segment A/2-795 ACSR | |
| 556 | LSP/NYPA/NGRID | Edic | Princetown (New Station) | 66.9 | W | 2023 | 345 | 345 | 2 | 3410 | 3709 | AC Transmission Project Segment A/2-954 ACSS | |
| 556 | NYPA | Edic | Marcy | 1.4 | W | 2023 | 345 | 345 | 1 | 3150 | 3750 | AC Transmission Project Segment A; Terminal Equipment Upgrades to existing line | |
| 556 | NGRID | Rotterdam | Rotterdam | remove substation | S | 2029 | 230 | 230 | N/A | N/A | N/A | Rotterdam 230kV Substation Retirement | |

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|--|--------------------|-----------------------------|-----------------------------|--------------------------|---|------|--|---------|----------|-----------------------------------|---------|---|-----------------------------------|
| | | | | | | | | | | | | | |
| 556 | NGRID | Rotterdam | Eastover Rd | -23.8 | S | 2029 | 230 | 230 | 1 | 1114 | 1284 | Rotterdam 230kV Substation Retirement, reconnect existing line | |
| 556 | LSP | Gordon Rd (New Station) | Rotterdam | remove transformer | S | 2029 | 345/230 | 345/230 | 2 | 478 MVA | 478 MVA | Rotterdam 230kV Substation Retirement | |
| 556 | NGRID | Gordon Rd (New Station) | Eastover Rd | 23.8 | S | 2029 | 230 | 230 | 1 | 1114 | 1284 | Rotterdam 230kV Substation Retirement; reconnect existing line | |
| 556 | LSP | Gordon Rd (New Station) | Gordon Rd (New Station) | transformer | S | 2029 | 345/230 | 345/230 | 1 | 478 MVA | 478 MVA | Rotterdam 230kV Substation Retirement, reconnect transformer to existing line | |
| 556 | LSP | Gordon Rd (New Station) | Rotterdam | transformer | S | 2029 | 345/115 | 345/115 | 2 | 650 MVA | 650 MVA | Rotterdam 230kV Substation Retirement | |
| 543 | NGRID | Greenbush | Hudson | -26.4 | W | 2023 | 115 | 115 | 1 | 648 | 800 | AC Transmission Project Segment B | |
| 543 | NGRID | Hudson | Pleasant Valley | -39.2 | W | 2023 | 115 | 115 | 1 | 648 | 800 | AC Transmission Project Segment B | |
| 543 | NGRID | Schodack | Churchtown | -26.7 | W | 2023 | 115 | 115 | 1 | 937 | 1141 | AC Transmission Project Segment B | |
| 543 | NGRID | Churchtown | Pleasant Valley | -32.2 | W | 2023 | 115 | 115 | 1 | 806 | 978 | AC Transmission Project Segment B | |
| 543 | NGRID | Milan | Pleasant Valley | -16.8 | W | 2023 | 115 | 115 | 1 | 806 | 978 | AC Transmission Project Segment B | |
| 543 | NGRID | Lafarge | Pleasant Valley | -60.4 | W | 2023 | 115 | 115 | 1 | 584 | 708 | AC Transmission Project Segment B | |
| 543 | NGRID | North Catskill | Milan | -23.9 | W | 2023 | 115 | 115 | 1 | 937 | 1141 | AC Transmission Project Segment B | |
| 543 | O&R | Shoemaker, Middle | Sugarloaf, Chester | -12.0 | W | 2023 | 138 | 138 | 1 | 1098 | 1312 | AC Transmission Project Segment B | |
| 543 | NGRID | New Scotland | Alps | -30.6 | W | 2023 | 345 | 765 | 1 | 2015 | 2140 | AC Transmission Project Segment B | |
| 543 | New York Transco | Schodack | Churchtown | 26.7 | W | 2023 | 115 | 115 | 1 | 648 | 798 | AC Transmission Project Segment B | |
| 543 | New York Transco | Churchtown | Pleasant Valley | 32.2 | W | 2023 | 115 | 115 | 1 | 623 | 733 | AC Transmission Project Segment B | |
| 543 | NGRID | Lafarge | Churchtown | 28.2 | W | 2023 | 115 | 115 | 1 | 582 | 708 | AC Transmission Project Segment B | |
| 543 | NGRID | North Catskill | Churchtown | 8.4 | W | 2023 | 115 | 115 | 1 | 648 | 848 | AC Transmission Project Segment B | |
| 543 | New York Transco | Knickerbocker (New Station) | Pleasant Valley | 54.2 | W | 2023 | 345 | 345 | 1 | 3862 | 4103 | AC Transmission Project Segment B | |
| 543 | New York Transco | Knickerbocker (New Station) | Knickerbocker (New Station) | series capacitor | W | 2023 | 345 | 345 | 1 | 3862 | 4103 | AC Transmission Project Segment B | |
| 543 | NGRID | Knickerbocker (New Station) | New Scotland | 12.4 | W | 2023 | 345 | 345 | 1 | 2381 | 3099 | AC Transmission Project Segment B | |

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|--|-------------------------|-----------------------------|--------------------------|--------------------------|---|------|--|---------|----------|-----------------------------------|------|--|-----------------------------------|
| | | | | | W | 2023 | | | | | | | |
| 543 | NGRID | Knickerbocker (New Station) | Alps | 18.1 | W | 2023 | 345 | 345 | 1 | 2552 | 3134 | AC Transmission Project Segment B | |
| 543 | New York Transco | Rock Tavern | Sugarloaf | 12.0 | W | 2023 | 115 | 115 | 1 | 328 | 402 | AC Transmission Project Segment B; 1-1590 ACSR | OH |
| 543 | New York Transco | Sugarloaf | Sugarloaf | Transformer | W | 2023 | 138/115 | 138/115 | --- | 329 | 329 | AC Transmission Project Segment B | |
| 543 | New York Transco | Van Wagner (New Station) | --- | Cap Bank | W | 2023 | 345 | 345 | --- | N/A | N/A | AC Transmission Project Segment B | |
| 543 | NGRID | Athens | Pleasant Valley | -39.39 | W | 2023 | 345 | 345 | 1 | 2228 | 2718 | Loop Line into new Van Wagner Substation/2-795 ACSR | OH |
| 543 | NGRID | Leeds | Pleasant Valley | -39.34 | W | 2023 | 345 | 345 | 1 | 2228 | 2718 | Loop Line into new Van Wagner Substation/2-795 ACSR | OH |
| 543 | NGRID | Athens | Van Wagner (New Station) | 38.65 | W | 2023 | 345 | 345 | 1 | 2228 | 2718 | Loop Line into new Van Wagner Substation/2-795 ACSR | OH |
| 543 | NGRID | Leeds | Van Wagner (New Station) | 38.63 | W | 2023 | 345 | 345 | 1 | 2228 | 2718 | Loop Line into new Van Wagner Substation/2-795 ACSR | OH |
| 543 | New York Transco/Con Ed | Van Wagner (New Station) | Pleasant Valley | 0.75 | W | 2023 | 345 | 345 | 1 | 3126 | 3704 | Loop Line into new Van Wagner Substation/Reconductor w/2-795 ACS | OH |
| 543 | New York Transco/Con Ed | Van Wagner (New Station) | Pleasant Valley | 0.75 | W | 2023 | 345 | 345 | 1 | 3126 | 3704 | Loop Line into new Van Wagner Substation/Reconductor w/2-795 ACS | OH |
| 543 | New York Transco | Dover (New Station) | Dover (New Station) | Phase Shifter | W | 2023 | 345 | 345 | --- | 2510 | 2510 | Loop Line 398 into new substation and install 2 x 750 MVar PARs | --- |
| 543 | ConEd | Cricket Valley | CT State Line | -3.46 | W | 2023 | 345 | 345 | 1 | 2220 | 2700 | Loop Line into new Dover Substation/2-795 ACS | OH |
| 543 | ConEd | Cricket Valley | Dover (New Station) | 0.30 | W | 2023 | 345 | 345 | 1 | 2220 | 2700 | Loop Line into new Dover Substation/2-795 ACS | OH |
| 543 | ConEd | Dover (New Station) | CT State Line | 3.13 | W | 2023 | 345 | 345 | 1 | 2220 | 2700 | Loop Line into new Dover Substation/2-795 ACS | OH |
| | - | | | | | | | | | | | | |

Firm Plans (5) (included in FERC 715 Base Case)

| [Project Queue Position] / Project Notes | Transmission Owner | Terminals | | Line Length in Miles (1) | Expected In-Service Date/Yr Prior to (2) Year | | Nominal Voltage in kV Operating/Design | | # Of cks | Thermal Ratings (4) Summer/Winter | | Project Description / Conductor Size | Class Year / Type of Construction |
|--|--------------------|-----------------|---|---------------------------------------|---|------|--|---------|----------|-----------------------------------|------|---|-----------------------------------|
| | | | | | | | | | | | | | |
| 3 | CHGE | North Chelsea | North Chelsea | xfmr | In-Service | 2020 | 115/69 | 115/69 | 1 | 564 | 728 | Replace Transformer 1 | - |
| 3 | CHGE | Fishkill Plains | East Fishkill | 2.05 | In-Service | 2020 | 115 | 115 | 1 | 1172 | 1434 | 1-1033 ACSR | OH |
| 3 | CHGE | North Catskill | North Catskill | xfmr | In-Service | 2020 | 115/69 | 115/69 | 2 | 560 | 726 | Replace Transformer 4 | - |
| | CHGE | North Catskill | North Catskill | xfmr | S | 2021 | 115/69 | 115/69 | 1 | 560 | 726 | Replace Transformer 5 | - |
| 14 | CHGE | Hurley Avenue | Leeds | Static synchronous series compensator | S | 2022 | 345 | 345 | 1 | 2336 | 2866 | 21% Compensation | - |
| | CHGE | Rock Tavern | Sugarloaf | 12.10 | W | 2022 | 115 | 115 | 1 | N/A | N/A | Retire SL Line | OH |
| | CHGE | Sugarloaf | NY/NJ State Line | 10.30 | W | 2022 | 115 | 115 | 2 | N/A | N/A | Retire SD/SJ Lines | OH |
| 11 | CHGE | St. Pool | High Falls | 5.61 | W | 2023 | 115 | 115 | 1 | 1010 | 1245 | 1-795 ACSR | OH |
| 11 | CHGE | High Falls | Kerhonkson | 10.03 | W | 2023 | 115 | 115 | 1 | 1010 | 1245 | 1-795 ACSR | OH |
| 11 | CHGE | Modena | Galeville | 4.62 | W | 2023 | 115 | 115 | 1 | 1010 | 1245 | 1-795 ACSR | OH |
| 11 | CHGE | Galeville | Kerhonkson | 8.96 | W | 2023 | 115 | 115 | 1 | 1010 | 1245 | 1-795 ACSR | OH |
| | CHGE | Hurley Ave | Saugerties | 11.40 | W | 2023 | 69 | 115 | 1 | 1114 | 1359 | 1-795 ACSR | OH |
| | CHGE | Kerhonkson | Kerhonkson | xfmr | W | 2023 | 115/69 | 115/69 | 1 | 564 | 728 | Add Transformer 3 | - |
| | CHGE | Kerhonkson | Kerhonkson | xfmr | W | 2023 | 115/69 | 115/69 | 1 | 564 | 728 | Add Transformer 4 | - |
| | CHGE | Saugerties | North Catskill | 12.46 | W | 2024 | 69 | 115 | 1 | 1114 | 1359 | 1-795 ACSR | OH |
| | CHGE | Knapps Corners | Spackenkil | 2.36 | W | 2025 | 115 | 115 | 1 | 1280 | 1563 | 1-1033 ACSR | |
| | ConEd | Buchanan North | Buchanan North | Reconfiguration | S | 2022 | 345 | 345 | | N/A | N/A | Reconfiguration (bus work related to decommissioning of Indian Point 2) | - |
| | ConEd | Rainey | Rainey | xfmr | S | 2022 | 345 | 345 | | N/A | N/A | Replacing xfmr 3W | - |
| | ConEd | Hudson Ave East | New Vinegar Hill Distribution Switching Station | xfmrs/PARs/Feeders | S | 2022 | 138/27 | 138/27 | | N/A | N/A | New Vinegar Hill Distribution Switching Station | UG |
| | ConEd | Rainey | Corona | xfmr/PAR/Feeder | S | 2023 | 345/138 | 345/138 | | N/A | N/A | New second PAR regulated feeder | UG |
| | ConEd | Gowanus | Greenwood | xfmr/PAR/Feeder | S | 2025 | 345/138 | 345/138 | | N/A | N/A | New PAR regulated feeder | UG |

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|--|--------------------|------------------|------------------------------|--------------------------|---|------|--|---------|----------|-----------------------------------|--------|--|-----------------------------------|
| | | | | | | | | | | | | | |
| | ConEd | Goethals | Fox Hills | xfmr/PAR/Feeder | S | 2025 | 345/138 | 345/138 | | N/A | N/A | New PAR regulated feeder | UG |
| 3 | LIPA | Deer Park | Deer Park | - | In-Service | 2019 | 69 | 69 | 1 | N/A | N/A | Install 27 MVAR Cap Bank | |
| 3 | LIPA | MacArthur | MacArthur | - | In-Service | 2019 | 69 | 69 | 1 | N/A | N/A | Install 27 MVAR Cap Bank | |
| 6/7/3 | LIPA | Meadowbrook | East Garden City | -3.11 | In-Service | 2020 | 69 | 69 | 1 | 458 | 601 | 4/0 CU | OH+UG |
| 6/7/3 | LIPA | East Garden City | Lindbergh | 2.11 | In-Service | 2020 | 69 | 69 | 1 | 575 | 601 | 750 kcmil CU | OH+UG |
| 6/7/3 | LIPA | Lindbergh | Meadowbrook | 2.50 | In-Service | 2020 | 69 | 69 | 1 | 458 | 601 | 4/0 CU | OH+UG |
| 6/7/3 | LIPA | Elmont | Floral Park | -1.59 | In-Service | 2020 | 34.5 | 34.5 | 1 | 644 | 816 | 477 AL | OH+UG |
| 6/7/3 | LIPA | Elmont | Belmont | 1.82 | In-Service | 2020 | 34.5 | 34.5 | 1 | 342 | 457 | 2/0 CU | OH+UG |
| 6/7/3 | LIPA | Belmont | Floral Park | 2.04 | In-Service | 2020 | 34.5 | 34.5 | 1 | 644 | 816 | 477 AL | OH+UG |
| 3 | LIPA | Valley Stream | East Garden City | 7.36 | In-Service | 2020 | 138 | 138 | 1 | 1128 | 1195 | New line / 2000 SQMM XLPE | UG |
| 6/7 | LIPA | Amagansett | Montauk | -13.00 | S | 2021 | 23 | 23 | 1 | 577 | 657 | 750 kcmil CU | UG |
| 6/7 | LIPA | Amagansett | Navy Road | 12.74 | S | 2021 | 23 | 23 | 1 | 577 | 657 | 750 kcmil CU | UG |
| 6/7 | LIPA | Navy Road | Montauk | 0.26 | S | 2021 | 23 | 23 | 1 | 577 | 657 | 750 kcmil CU | UG |
| 9 | LIPA | Riverhead | Wildwood | 10.63 | S | 2021 | 138 | 138 | 1 | 1399 | 1709 | 1192ACSR | |
| 13 | LIPA | Riverhead | Canal | 16.49 | S | 2021 | 138 | 138 | 1 | 1000 | 1110 | 2368 KCMIL (1200 mm ²) Copper XLPE | |
| | LIPA | Barrett | Barrett | - | S | 2021 | 34.5 | 34.5 | 1 | N/A | N/A | Barrett 34.5kV Bus Tie Reconfiguration | - |
| 3 | NGRID | Rosa Rd | Rosa Rd | - | In-Service | 2020 | 115 | 115 | | N/A | N/A | Install 35.2MVAR Cap Bank at Rosa Rd | - |
| 6/3 | NGRID | Rotterdam | Curry Rd | 7 | In-Service | 2020 | 115 | 115 | 1 | 1105 | 1347 | Replace 7.0 miles of mainly 4/0 Cu conductor with 795kcmil ACSR 26/7 | OH |
| 3 | NGRID | Elm St | Elm St | xfmr | In-Service | 2020 | 230/23 | 230/23 | 1 | 118MVA | 133MVA | Add a fourth 230/23kV transformer | |
| 3 | NGRID | West Ashville | West Ashville | | In-Service | 2020 | 115 | 115 | | N/A | N/A | New Distribution Station at West Ashville | |
| 7/3 | NGRID | Spier | Rotterdam (#2) | -32.74 | In-Service | 2020 | 115 | 115 | 1 | 1168 | 1416 | New Lasher Rd Switching Station | OH |
| 7/3 | NGRID | Spier | Lasher Rd (New Station) (#2) | 21.69 | In-Service | 2020 | 115 | 115 | 1 | 1168 | 1416 | New Lasher Rd Switching Station | OH |

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| | | | | | | | | | | | | | |
| 7/3 | NGRID | Lasher Rd (New Station) | Rotterdam | 11.05 | In-Service | 2020 | 115 | 115 | 1 | 2080 | 2392 | New Lasher Rd Switching Station | OH |
| 7/3 | NGRID | Spier | Luther Forest (#302) | -34.21 | In-Service | 2020 | 115 | 115 | 1 | 916 | 1070 | New Lasher Rd Switching Station | OH |
| 7/3 | NGRID | Spier | Lasher Rd (New Station) (#302) | 21.72 | In-Service | 2020 | 115 | 115 | 1 | 916 | 1118 | New Lasher Rd Switching Station | OH |
| 3 | NGRID | Lasher Rd (New Station) | Luther Forest | 12.49 | In-Service | 2020 | 115 | 115 | 1 | 990 | 1070 | New Lasher Rd Switching Station | OH |
| 3 | NGRID | Rotterdam | Rotterdam | - | In-Service | 2020 | 115 | 115 | 2 | N/A | N/A | Install Series Reactors at Rotterdam Station on lines 17 & 19 | |
| 3 | NGRID | Huntley | Lockport | 6.9 | In-Service | 2020 | 115 | 115 | 2 | 1303 | 1380 | Replace 6.9 miles of 36 and 37 lines | OH |
| 3 | NGRID | Two Mile Creek | Two Mile Creek | | In-Service | 2020 | 115 | 115 | | N/A | N/A | New Distribution Station at Two Mile Creek | |
| 6/3 | NGRID | GE | Geres Lock | 7.14 | In-Service | 2020 | 115 | 115 | 1 | 785 | 955 | Reconductoring 4/0CU & 336 ACSR to 477 ACCR (Line #8) | |
| 3 | NGRID | Gardenville 230kV | Gardenville 115kV | xfmr | In-Service | 2020 | 230/115 | 230/115 | - | 347 MVA | 422 MVA | Replacement of 230/115kV TB#4 stepdown with larger unit | |
| 3 | NGRID | Gardenville 115kV | Gardenville 115kV | - | In-Service | 2020 | - | - | - | - | - | Rebuild of Gardenville 115kV Station to full breaker and a half | |
| | NGRID | Oswego | Oswego | - | W | 2020 | 115 | 115 | | N/A | N/A | Rebuild of Oswego 115kV Station | |
| 6 | NGRID | Clay | Dewitt | 10.24 | S | 2021 | 115 | 115 | 1 | 220MVA | 268MVA | Reconductor 4/0 CU to 795ACSR | OH |
| 6 | NGRID | Clay | Teall | 12.75 | S | 2021 | 115 | 115 | 1 | 220 MVA | 268MVA | Reconductor 4/0 CU to 795ACSR | OH |
| | NGRID | Gardenville 230kV | Gardenville 115kV | xfmr | S | 2021 | 230/115 | 230/115 | - | 347 MVA | 422 MVA | Replacement of 230/115kV TB#3 stepdown with larger unit | |
| | NGRID | Huntley 115kV | Huntley 115kV | - | S | 2021 | 115 | 115 | - | N/A | N/A | Rebuild of Huntley 115kV Station | |
| | NGRID | Mortimer | Mortimer | xfmr | S | 2021 | 115 | 115 | | 50MVA | 50MVA | Replace Mortimer 115/69kV Transformer | |
| | NGRID | Mortimer | Mortimer | - | S | 2021 | 115 | 115 | | N/A | N/A | Second 115kV Bus Tie Breaker at Mortimer Station | |
| | NGRID | Royal Ave | Royal Ave | - | S | 2021 | 115/13.2 | 115/13.2 | - | - | - | Install new 115-13.2 kV distribution substation | - |

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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | in Niagara Falls (Royal Ave) | |
| | NGRID | Niagara | Packard | 3.4 | W | 2021 | 115 | 115 | 1 | 344MVA | 449MVA | Replace 3.4 miles of 192 line | OH |
| | NGRID | Mountain | Lockport | 0.08 | S | 2022 | 115 | 115 | 2 | 174MVA | 199MVA | Mountain-Lockport 103/104 Bypass | OH |
| | NGRID | South Oswego | Indeck (#6) | - | S | 2022 | 115 | 115 | 1 | - | - | Install High Speed Clearing on Line #6 | |
| | NGRID | Porter | Porter | - | S | 2022 | 230 | 230 | | N/A | N/A | Porter 230kV upgrades | |
| | NGRID | Watertown | Watertown | | S | 2022 | 115 | 115 | | N/A | N/A | New Distribution Station at Watertown | |
| | NGRID | Golah | Golah | xfmr | S | 2022 | 69 | 69 | | 50MVA | 50MVA | Replace Golah 69/34.5kV Transformer | |
| | NGRID | Niagara | Packard | 3.7 | S | 2022 | 115 | 115 | 1 | 344MVA | 449MVA | Replace 3.7 miles of 191 line | OH |
| | NGRID | Lockport | Mortimer | 56.5 | S | 2022 | 115 | 115 | 3 | - | - | Replace Cables Lockport-Mortimer #111, 113, 114 | |
| 6 | NGRID | Niagara | Packard | 3.7 | W | 2022 | 115 | 115 | 2 | 344MVA | 449MVA | Replace 3.7 miles of 193 and 194 lines | OH |
| | NGRID | Gardenville | Big Tree | 6.3 | W | 2022 | 115 | 115 | 1 | 221MVA | 221MVA | Gardenville-Arcade #151 Loop-in-and-out of NYSEG Big Tree | OH |
| | NGRID | Big Tree | Arcade | 28.6 | W | 2022 | 115 | 115 | 1 | 129MVA | 156MVA | Gardenville-Arcade #151 Loop-in-and-out of NYSEG Big Tree | OH |
| | NGRID | Seneca | Seneca | xfmr | W | 2022 | 115/22 | 115/22 | | 40MVA | 40MVA | Seneca #5 xfmr asset replacement | |
| | NGRID | Batavia | Batavia | | W | 2022 | 115 | 115 | | | | Batavia replace five OCB's | |
| | NGRID | Cortland | Clarks Corners | 0.2 | S | 2023 | 115 | 115 | 1 | 147MVA | 170MVA | Replace 0.2 miles of 1(716) line and series equipment | OH |
| | NGRID | Maplewood | Menands | 3 | S | 2023 | 115 | 115 | 1 | 220 MVA | 239 MVA | Reconductor approx 3 miles of 115kV Maplewood – Menands #19 | |
| | NGRID | Maplewood | Reynolds | 3 | S | 2023 | 115 | 115 | 1 | 217 MVA | 265 MVA | Reconductor approx 3 miles of 115kV Maplewood – Reynolds Road #31 | |
| | NGRID | Elm St | Elm St | - | S | 2023 | 230/23 | 230/23 | - | 118MVA | 133MVA | Replace TR2 as failure | |
| | NGRID | Ridge | Ridge | | S | 2023 | | | | N/A | N/A | Ridge substation 34.5kV rebuild | |

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|--|--------------------|---------------------|---------------------|--------------------------|---|------|--|--------|----------|-----------------------------------|---------|---|-----------------------------------|
| | | | | | | | | | | | | | |
| | NGRID | Wolf Rd | Menands | 1.34 | W | 2023 | 115 | 115 | 1 | 182 MVA | 222 MVA | Reconductor 1.34 miles betw Wolf Rd- Everett tap (per EHI) | OH |
| | NGRID | Packard | Huntley | 9.1 | W | 2023 | 115 | 115 | 1 | 262MVA | 275MVA | Walck-Huntley #133, Packard-Huntley #130 Reconductor | OH |
| | NGRID | Walck | Huntley | 9.1 | W | 2023 | 115 | 115 | 1 | 262MVA | 275MVA | Walck-Huntley #133, Packard-Huntley #130 Reconductor | OH |
| | NGRID | Kensington Terminal | Kensington Terminal | - | W | 2023 | 115/23 | 115/23 | - | 50MVA | 50MVA | Replace TR4 and TR5 | |
| | NGRID/NYSEG | Mortimer | Station 56 | | W | 2023 | 115 | 115 | 1 | 649 | 788 | Mortimer-Pannell #24 Loop in-and-out of NYSEG's Station 56 | |
| | NGRID | Station 56 | Pannell | | W | 2023 | 115 | 115 | 1 | 649 | 788 | Mortimer-Pannell #24 Loop in-and-out of NYSEG's Station 56 | |
| | NGRID | Dunkirk | Laona | - | S | 2024 | 115 | 115 | 2 | N/A | N/A | Remove series reactors from New Road Switch Station and install new to Moons Switch Station | |
| | NGRID | Laona | Moons | - | S | 2024 | 115 | 115 | 2 | N/A | N/A | Remove series reactors from New Road Switch Station and install new to Moons Switch Station | |
| | NGRID | Golah | Golah | Reconfiguration | S | 2024 | 115 | 115 | | - | - | Add a Golah 115kV bus tie breaker | |
| | NGRID | Dunkirk | Dunkirk | - | S | 2024 | 115 | 115 | | N/A | N/A | Rebuild of Dunkirk 115kV Station | |
| 6 | NGRID | Gardenville | Dunkirk | 20.5 | S | 2024 | 115 | 115 | 2 | 1105 | 1346 | Replace 20.5 miles of 141 and 142 lines | OH |
| | NGRID | Homer Hill | Homer Hill | - | S | 2024 | 115 | 115 | - | 116MVA | 141MVA | Homer Hill Replace five OCB | |
| | NGRID | Golah | Golah | | S | 2024 | | | | N/A | N/A | Golah substation rebuild | |
| | NGRID | Pannell | Geneva | | W | 2024 | 115 | 115 | 2 | 755 | 940 | Critical Road crossings replace on Pannell-Geneva 4/4A | |
| | NGRID | Oswego | Oswego | - | S | 2025 | 345 | 345 | | N/A | N/A | Rebuild of Oswego 345kV Station | |
| | NGRID | Mortimer | Golah | 9.7 | S | 2025 | 115 | 115 | 1 | 657 | 797 | Refurbish 9.7 miles Single Circuit Wood H-Frames on Mortimer-Golah 110 | |

| [Project Queue Position] / Project Notes | Transmission Owner | Terminals | | Line Length in Miles (1) | Expected In-Service Date/Yr Prior to (2) Year | | Nominal Voltage in kV Operating/Design | | # Of ckt | Thermal Ratings (4) Summer/Winter | | Project Description / Conductor Size | Class Year / Type of Construction |
|--|--------------------|--------------|--------------|--------------------------|---|------|--|-----|----------|-----------------------------------|----------|---|-----------------------------------|
| | | | | | | | | | | | | | |
| | NGRID | Huntley | Lockport | 1.2 | S | 2025 | 115 | 115 | 2 | 747 | 934 | Rebuild 1.2 miles of (2) single circuit taps on Huntley-Lockport 36/37 at Ayer Rd | |
| | NGRID | Niagara | Gardenville | 26.3 | S | 2026 | 115 | 115 | 1 | 275MVA | 350MVA | Packard-Erie / Niagara-Gardenville Reconfiguration | OH |
| | NGRID | Packard | Gardenville | 28.2 | S | 2026 | 115 | 115 | 2 | 168MVA | 211 MVA | Packard-Gardenville Reactors, Packard-Erie / Niagara-Gardenville Reconfiguration | OH |
| | NGRID/NYSEG | Erie St | Gardenville | 5.5 | S | 2026 | 115 | 115 | 1 | 139MVA | 179MVA | Packard-Erie / Niagara-Gardenville Reconfiguration, Gardenville add breakers | OH |
| | NGRID | Mortimer | Pannell | 15.7 | S | 2026 | 115 | 115 | 2 | 221MVA | 270MVA | Reconductor existing Mortimer – Pannell 24 and 25 lines with 795 ACSR | |
| | NGRID | Lockport | Batavia | 20 | S | 2026 | 115 | 115 | 1 | 646 | 784 | Rebuild 20 miles of Lockport-Batavia 112 | |
| | NGRID | Mountain | Lockport | | S | 2026 | 115 | 115 | 2 | 847 | 1000 | Reinsulating Mountain-Lockport 103/104 | |
| | NGRID | SE Batavia | Golah | 27.8 | S | 2026 | 115 | 115 | 1 | 648 | 846 | Refurbish 27.8 miles Single Circuit Wood H-Frames on SE Batavia-Golah 119 | |
| | NGRID | Packard | Packard | | S | 2026 | 115 | 115 | | | | Packard replace three OCB's | |
| | NGRID | Brockport | Brockport | 3.5 | W | 2026 | 115 | 115 | 2 | 648 | 650 | Refurbish 111/113 3.5 mile single circuit taps to Brockport Station | |
| | NGRID | Gardenville | Homer Hill | 37.5 | S | 2027 | 115 | 115 | 2 | 649 | 788 | Refurbish 37.5 miles double circuit Gardenville-Homer Hill 151/152 | |
| | NGRID | Huntley | Gardenville | 23.4 | W | 2027 | 115 | 115 | 2 | 731 | 887 | Refurbish 23.4 miles double circuit on Huntley-Gardenville 38/39 | |
| | NGRID | Lockport | Lockport | | W | 2027 | | | | N/A | N/A | Rebuild of Lockport Substation and control house | |
| 781/3 | NYPA | Fraser Annex | Fraser Annex | SSR Detection | In-Service | 2020 | 345 | 345 | 1 | 1793 MVA | 1793 MVA | MSSC SSR Detection Project | |

| [Project Queue Position] / Project Notes | Transmission Owner | Terminals | | Line Length in Miles (1) | Expected In-Service Date/Yr Prior to (2) Year | | Nominal Voltage in kV Operating/Design | | # Of ckt | Thermal Ratings (4) Summer/Winter | | Project Description / Conductor Size | Class Year / Type of Construction |
|--|--------------------|---------------------------|---------------------------|------------------------------|---|------|--|----------|----------|-----------------------------------|---------|---|-----------------------------------|
| | | | | | | | | | | | | | |
| 3 | NYPA | Niagara 230 kV | Niagara 230 kV | Breaker | In-Service | 2020 | 230 | 230 | 1 | N/A | N/A | Add a new breaker | |
| 3 | NYPA | Niagara 230 kV | Niagara 115 kV | Autotransformer | In-Service | 2020 | 230 | 115 | 1 | 240 MVA | 240 MVA | Replace Niagara AT #1 | |
| 3 | NYPA | Astoria 138 kV | Astoria 13.8 kV | Astoria CC GSU Refurbishment | In-Service | 2020 | 138 | 18 | 1 | 234 | 234 | Astoria CC GSU Refurbishment | |
| 3 | NYPA | Niagara | Rochester | -70.20 | In-Service | 2020 | 345 | 345 | 1 | 2177 | 2662 | 2-795 ACSR | |
| 339/7/3 | NYPA | Somerset | Rochester | -44.00 | In-Service | 2020 | 345 | 345 | 1 | 2177 | 2662 | 2-795 ACSR | |
| 339/7/3 | NYPA | Niagara | Station 255 (New Station) | 66.40 | In-Service | 2020 | 345 | 345 | 1 | 2177 | 2662 | 2-795 ACSR | |
| 339/7/3 | NYPA | Somerset | Station 255 (New Station) | 40.20 | In-Service | 2020 | 345 | 345 | 1 | 2177 | 2662 | 2-795 ACSR | |
| 339/7/3 | NYPA | Station 255 (New Station) | Rochester | 3.80 | In-Service | 2020 | 345 | 345 | 2 | 2177 | 2662 | 2-795 ACSR | |
| | NYPA | East Garden City | East Garden City | Shunt Reactor | S | 2021 | 345 | 345 | 1 | N/A | N/A | Swap with the spare unit | |
| 566/6 | NYPA | Moses | Adirondack | 78 | S | 2023 | 230 | 345 | 2 | 1088 | 1329 | Replace 78 miles of both Moses-Adirondack 1&2 | |
| 3 | NYSEG | Watercure Road | Watercure Road | xfmr | In-Service | 2020 | 345/230 | 345/230 | 1 | 426 MVA | 494 MVA | Transformer #2 and Station Reconfiguration | - |
| | NYSEG | Willet | Willet | xfmr | S | 2021 | 115/34.5 | 115/34.5 | 1 | 39 MVA | 44 MVA | Transformer #2 | - |
| | NYSEG | Big Tree Road | Big Tree Road | Rebuild | W | 2022 | 115 | 115 | | | | Station Rebuild | |
| | NYSEG | Wood Street | Wood Street | xfmr | W | 2022 | 345/115 | 345/115 | 1 | 327 MVA | 378 MVA | Transformer #3 | - |
| | NYSEG | Coddington | E. Ithaca (to Coddington) | 8.07 | S | 2024 | 115 | 115 | 1 | 307 MVA | 307 MVA | 665 ACCR | OH |
| | NYSEG | Fraser | Fraser | xfmr | S | 2024 | 345/115 | 345/115 | 1 | 305 MVA | 364 MVA | Transformer #2 and Station Reconfiguration | - |
| | NYSEG | Fraser 115 | Fraser 115 | Rebuild | S | 2024 | 115 | 115 | | N/A | N/A | Station Rebuild to 4 bay BAAH | - |
| | NYSEG | Delhi | Delhi | Removal | S | 2024 | 115 | 115 | | N/A | N/A | Remove 115 substation and terminate existing lines to Fraser 115 (short distance) | |
| | NYSEG | Erie Street Rebuild | Erie Street Rebuild | Rebuild | S | 2026 | 115 | 115 | | | | Station Rebuild | |
| | NYSEG | Meyer | Meyer | xfmr | W | 2026 | 115/34.5 | 115/34.5 | 2 | 59.2MVA | 66.9MVA | Transformer #2 | - |
| 3 | O & R | West Nyack | West Nyack | Cap Bank | In-Service | 2020 | 138 | 138 | 1 | - | - | Capacitor Bank | |

| [Project Queue Position] / Project Notes | Transmission Owner | Terminals | | Line Length in Miles (1) | Expected In-Service Date/Yr Prior to (2) Year | | Nominal Voltage in kV Operating/Design | | # Of cks | Thermal Ratings (4) Summer/Winter | | Project Description / Conductor Size | Class Year / Type of Construction |
|--|--------------------|-------------------------------------|-------------------------------------|--------------------------|---|------|--|----------|----------|-----------------------------------|--------------|---------------------------------------|-----------------------------------|
| | | | | | | | | | | | | | |
| 3 | O & R | Harings Corner (RECO) | Closter (RECO) | 3.20 | In-Service | 2020 | 69 | 69 | 1 | 1098 | 1312 | UG Cable | |
| 3 | O & R | Ramapo | Ramapo | xmfr | In-Service | 2020 | 345/138 | 345/138 | 1 | 731 | 731 | New transformer replacement Bank 1300 | |
| 7 | O & R/ConEd | Ladentown | Buchanan | -9.5 | S | 2023 | 345 | 345 | 1 | 3000 | 3211 | 2-2493 ACAR | |
| 7 | O & R/ConEd | Ladentown | Lovett 345 kV Station (New Station) | 5.5 | S | 2023 | 345 | 345 | 1 | 3000 | 3211 | 2-2493 ACAR | |
| 7 | O & R/ConEd | Lovett 345 kV Station (New Station) | Buchanan | 4 | S | 2023 | 345 | 345 | 1 | 3000 | 3211 | 2-2493 ACAR | |
| | O & R | Lovett 345 kV Station (New Station) | Lovett | xmfr | S | 2023 | 345/138 | 345/138 | 1 | 562 MVA | 562 MVA | Transformer | |
| 3 | RGE | Station 23 | Station 23 | xmfr | In-Service | 2019 | 115/34.5 | 115/34.5 | 2 | 75 MVA | 84 MVA | Transformer | - |
| 3 | RGE | Station 122-Pannell-PC1 | Station 122-Pannell-PC1 and PC2 | | In-Service | 2020 | 345 | 345 | 1 | 1314 MVA-LTE | 1314 MVA-LTE | Relay Replacement | |
| 3 | RGE | Station 255 (New Station) | Rochester | 3.80 | In-Service | 2020 | 345 | 345 | 1 | 2177 | 2662 | 2-795 ACSR | OH |
| 3 | RGE | Station 255 (New Station) | Station 255 (New Station) | xmfr | In-Service | 2020 | 345/115 | 345/115 | 1 | 400 MVA | 450 MVA | Transformer | - |
| 3 | RGE | Station 255 (New Station) | Station 255 (New Station) | xmfr | In-Service | 2020 | 345/115 | 345/115 | 2 | 400 MVA | 450 MVA | Transformer | - |
| 3 | RGE | Station 255 (New Station) | Station 418 | 10.49 | In-Service | 2020 | 115 | 115 | 1 | 300 MVA | 300 MVA | New 115kV Line | OH |
| 3 | RGE | Station 255 (New Station) | Station 23 | 11.96 | In-Service | 2020 | 115 | 115 | 1 | 300 MVA | 300 MVA | New 115kV Line | OH+UG |
| | RGE | Station 262 | Station 23 | 1.46 | S | 2021 | 115 | 115 | 1 | 2008 | 2008 | Underground Cable | |
| | RGE | Station 33 | Station 262 | 2.97 | S | 2021 | 115 | 115 | 1 | 2008 | 2008 | Underground Cable | |
| | RGE | Station 262 | Station 262 | xmfr | S | 2021 | 115/34.5 | 115/34.5 | 1 | 58.8MVA | 58.8MVA | Transformer | - |
| 7 | RGE | Station 168 | Mortimer (NG Trunk #2) | 26.4 | W | 2023 | 115 | 115 | 1 | 145 MVA | 176 MVA | Station 168 Reinforcement Project | OH |
| 7 | RGE | Station 168 | Elbridge (NG Trunk # 6) | 45.5 | W | 2023 | 115 | 115 | 1 | 145 MVA | 176 MVA | Station 168 Reinforcement Project | OH |
| | RGE | Station 127 | Station 127 | xmfr | W | 2024 | 115/34.5 | 115/34.5 | 1 | 75MVA | 75MVA | Transformer #2 | - |
| | RGE | Station 418 | Station 48 | 7.6 | S | 2026 | 115 | 115 | 1 | 175 MVA | 225 MVA | New 115kV Line | OH |

| [Project Queue Position] / Project Notes | Transmission Owner | Terminals | | Line Length in Miles (1) | Expected In-Service Date/Yr Prior to (2) Year | | Nominal Voltage in kV Operating/Design | | # Of ckt | Thermal Ratings (4) Summer/Winter | | Project Description / Conductor Size | Class Year / Type of Construction |
|--|--------------------|------------|---------------------------------|--------------------------|---|------|--|-----|----------|-----------------------------------|--------|--------------------------------------|-----------------------------------|
| | | | | | S | 2026 | 115 | 115 | | 400MVA | 400MVA | | |
| | RGE | Station 33 | Station 251 (Upgrade Line #942) | | S | 2026 | 115 | 115 | 1 | 400MVA | 400MVA | Line Upgrade | |
| | RGE | Station 33 | Station 251 (Upgrade Line #943) | | S | 2026 | 115 | 115 | 1 | 400MVA | 400MVA | Line Upgrade | |
| | RGE | Station 82 | Station 251 (Upgrade Line #902) | | S | 2028 | 115 | 115 | 1 | 400MVA | 400MVA | Line Upgrade | |
| | RGE | Mortimer | Station 251 (Upgrade Line #901) | 1.00 | S | 2028 | 115 | 115 | 1 | 400MVA | 400MVA | Line Upgrade | |

| Number | Note |
|--------|--|
| 1 | Line Length Miles: Negative values indicate removal of Existing Circuit being tapped |
| 2 | S = Summer Peak Period W = Winter Peak Period |
| 3 | Equipment (Transformers & Capacitor Banks) is retained on this list for one year after it goes in In-Service, and then it is deleted. A Transmission Line is reflected in Table VI when it goes In-Service |
| 4 | Thermal Ratings in Amperes, except where labeled otherwise |
| 5 | Firm projects are those which have been reported by TOs as being sufficiently firm, and either (i) have an Operating Committee approved System Impact Study (if applicable) and, for projects subject to Article VII, have a determination from New York Public Service Commission that the Article VII application is in compliance with Public Service Law § 122, or (ii) is under construction and is scheduled to be in-service prior to June 1 of the current year. |
| 6 | Reconductoring of Existing Line |
| 7 | Segmentation of Existing Circuit |
| 8 | Deleted |
| 9 | Upgrade of existing 69 kV to 138 kV operation |
| 10 | Deleted |
| 11 | Upgrade of existing 69 kV to 115 kV operation |
| 12 | Deleted |
| 13 | Contingent on future generation resources |
| 14 | This transmission upgrade was identified as a System Deliverability Upgrade (SDU) in the Class Year 2011 Study process required to make certain interconnection projects fully deliverable in the Rest of State Capacity Region. Upon the completion of Class Year 2011, the security posted for the SDU constituted greater than 60% of the total estimated costs for the SDUs and thereby “triggered” the SDU for construction. |
| 15 | The Class Year Transmission Project, Queue #458 or 631 includes, as an elective System Upgrade Facility, an Astoria-Rainey 345kV cable. Modifying Q631 from a three-terminal HVdc project to a two-terminal HVdc project has determined to be non-material; however, Q458 and Q631 may not enter the same Class Year Study. Q887 CH Uprate is a 250 MW uprate of Q458 or Q631 project. |
| 16 | Deleted |
| 17 | Deleted |
| 18 | This project has a System Reliability Impact Study that has been approved by the NYISO Operating Committee, and therefore is a potential candidate to enter the next Open Class Year study |
| 19 | These transmission projects are included in the FERC 715 Report models. Please see FERC 715 report for an explanation of the inclusion criteria. |
| 20 | Deleted |