



Transmission Planning

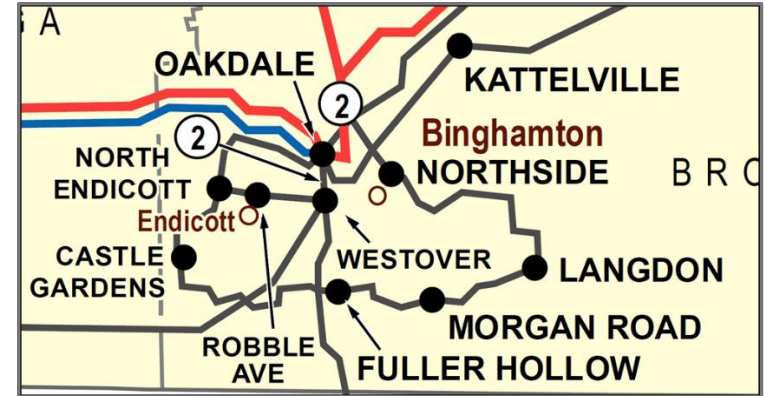
9 February 2022

NYSEG

**CLCPA Phase 1
Project Summaries**

Binghamton Region Phase 1 Projects

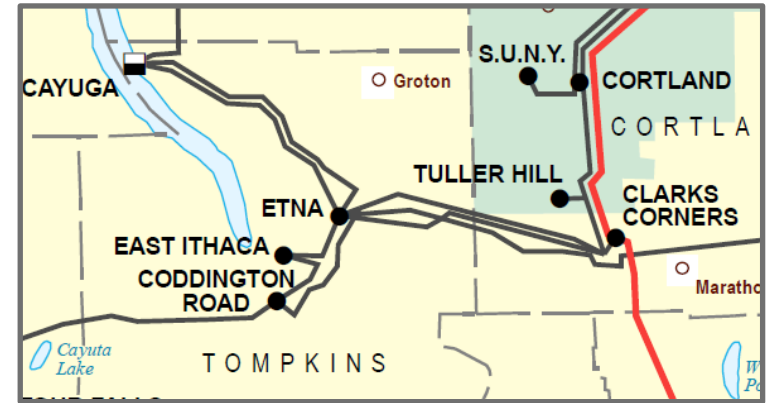
The Binghamton region Phase 1 project(s), below, unlock an incremental 878 MW of headroom, in addition to resolving pre-existing system needs.



Project Name	Description	Project Need	Status	Est. ISD
Oakdale-Westover Substation Upgrades	Rebuild Oakdale Substation 115 kV bus and add 3 rd 345/115/34.5 kV transformer. Retire Westover 115 kV Substation and extend lines to Oakdale 115 kV. Rebuild 34.5 kV bus out of flood zone, to be served from Oakdale.	Reliability and Asset Condition	Planned	2027
115 kV Line 962 Full Rebuild	Full rebuild of 35-mile Line 962 from South Owego to Hillside Substations with 1192 "Bunting" ACSR conductor.	Asset Condition	Proposed	2028
Lounsberry Substation Full Rebuild	Full Rebuild of Lounsberry 115/12.5 kV Substation on new property out of flood zone.	Asset Condition	Proposed	2027
115 kV Line 961 Full Rebuild	Full rebuild of 18-mile Line 961 from South Owego to Westover Substations with 1192 "Bunting" ACSR conductor.	Asset Condition	Proposed	2027

Ithaca Region Phase 1 Projects

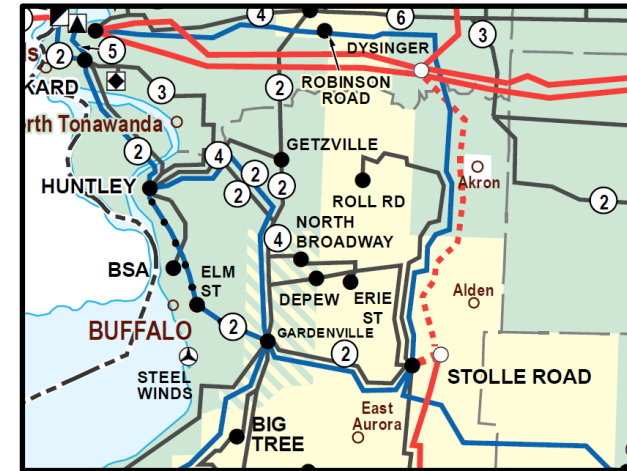
The Ithaca region Phase 1 project(s), below, unlock an incremental 380 MW of headroom, in addition to resolving pre-existing system needs.



Project Name	Description	Project Need	Status	Est. ISD
Coddington 115/34.5kV Substation Upgrades	Full rebuild of 115 kV bus as BaaH with GIS on existing property. Two new 50 MVA transformers and two new cap banks.	Reliability and Asset Condition	Proposed	2025
Etna 115/34.5/4.8 kV Substation Full Rebuild	Full rebuild of the 115/34.5/4.8 kV buses. 115 kV rebuild will be BaaH AIS.	Reliability and Asset Condition	Proposed	2026
Clarks Corners 345/115 kV Substation Upgrades	Expand 115 kV bus to 4-bay BaaH. Re-terminate 345/115 kV autotransformers to BaaH positions. Bring 115 kV Line 945 in-and-out of Clarks Corners.	Reliability	Proposed	2025
115 kV Line 982 Full Rebuild	Rebuild the existing 21-mile 115 kV line with 1192 "Bunting" ACSR conductor.	Asset Condition	Proposed	2027

Lancaster Region Phase 1 Projects

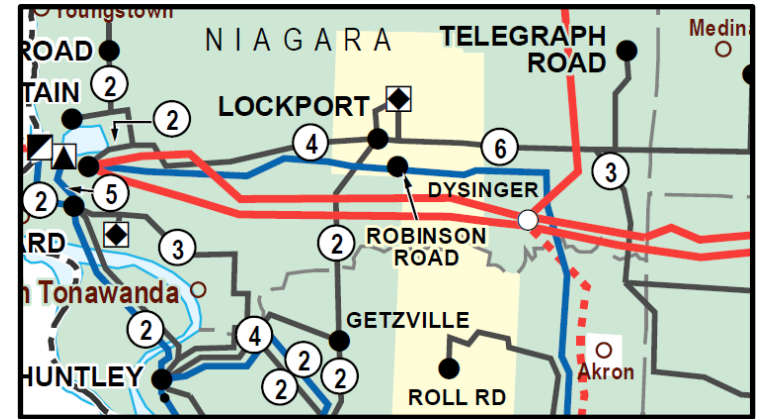
The Lancaster region Phase 1 project(s), below, unlock an incremental 580 MW of headroom, in addition to resolving pre-existing system needs.



Project Name	Description	Project Need	Status	Est. ISD
Stolle Road 345/230/115/34.5 kV Substation Upgrades	Partial Rebuild of 115 kV to a BAAH in the existing yard. Expand 345 kV bus to a 4-breaker ring bus. Install One (1) 448 MVA 345/115 kV transformer. and one (1) 448 345/230 kV transformer. Rebuild 34.5 kV as GIS straight bus with a tie breaker.	Reliability and Asset Condition	Proposed	2025

Lockport Region Phase 1 Projects

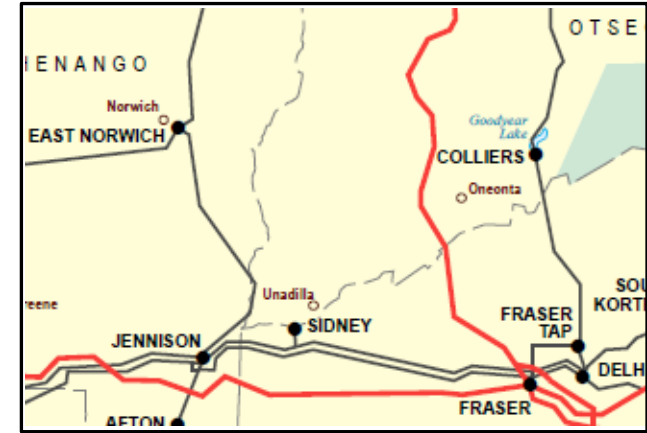
The Lockport region Phase 1 project(s), below, unlock an incremental 240 MW of headroom, in addition to resolving pre-existing system needs.



Project Name	Description	Project Need	Status	Est. ISD
Robinson Road 230/115/34.5 kV Substation Upgrades	New 230/115 kV transformer, new 4-bay 115 kV AIS BAAH, three new 115/34.5 kV transformers and new 34.5 kV MV GIS	Reliability and Asset Condition	Proposed	2027

Oneonta Region Phase 1 Projects

The Oneonta region Phase 1 projects, below, unlock an incremental 765 MW of headroom, in addition to resolving pre-existing system needs.



Project Name	Description	Project Need	Status	Est. ISD
Jennison 115/46 kV Substation Upgrades	Rebuild Jennison Substation “off-site” as a 4-bay BaaH 0.75 miles away. Bring line 919 in-and-out.	Reliability and Asset Condition	Proposed	2025
New Baker Hill 115/46 kV Substation	New 115/46 kV Station build as a 2-bay BaaH. Includes one (1) new 50 MVA 115/46 kV transformer and one (1) 115 kV capacitor bank.	Reliability	Proposed	2028
New 46 kV Line from Pierce to Baker Hill	Build a new 46 kV transmission line from the existing Pierce Substation to the new Baker Hill Substation with 477 “Pelican” ACSR.	Reliability	Proposed	2029
New 46 kV Line from Morris to Baker Hill	Build a new 46 kV transmission line from the existing Morris Substation to the new Baker Hill Substation with 477 “Pelican” ACSR.	Reliability	Proposed	2029
New 115 kV Line from East Norwich to Baker Hill	Build a new 115 kV transmission line from the existing East Norwich Substation to the new Baker Hill Substation with 1192 “Bunting” ACSR.	Reliability	Proposed	2029

Oneonta Region Phase 1 Projects (Continued)

Project Name	Description	Project Need	Status	Est. ISD
New 115 kV Line from Colliers to Baker Hill	Build a new 115 kV transmission line from the existing Colliers Substation to the new Baker Hill Substation with 1192 “Bunting” ACSR.	Reliability	Proposed	2028
New 115 kV Line from Fraser to Baker Hill	Build a new 115 kV transmission line from the existing Fraser Substation to the new Baker Hill Substation with 1192 “Bunting” ACSR.	Reliability	Proposed	2029
East Norwich 115/46/34.5/4.8 kV Substation Partial Rebuild	Full rebuild of the 115 kV bus as a 4-bay GIS BaaH and rebuild control house. Install two (2) new 115/46 kV transformers and one (1) new 115/34.5 kV transformer.	Reliability and Asset Condition	Proposed	2028
Colliers 115/46/4.8/4.16 kV Substation Full Rebuild	Rebuild 115 kV bus as 3-bay 115 kV AIS BaaH with two (2) new 50 MVA 115/46 kV transformers. Rebuild 46 kV bus as GIS straight bus with a tie breaker.	Reliability and Asset Condition	Proposed	2028
Pierce Ave 46/12.5/4.8 kV Substation Upgrades	Add one (1) circuit breaker and two disconnect switches in an existing bay position for new line from Baker Hill.	Reliability	Proposed	2029
Morris 46/4.8 kV Substation Upgrades	Add two (2) new breakers to existing 46 kV lines and expand 46 kV bus to include one additional line position. Replace existing transformer banks with one (1) new 14 MVA 46/12.5 kV transformer. Install new control house.	Reliability and Asset Condition	Proposed	2026
115 kV Line 946 Full Rebuild	Rebuild the existing 20-mile 115 kV line with 1192 “Bunting” ACSR	Asset Condition	Proposed	2028
115 kV Line 949 Full Rebuild	Rebuild the existing 25-mile 115 kV line with 1192 “Bunting” ACSR	Asset Condition	Proposed	2027