

Preface

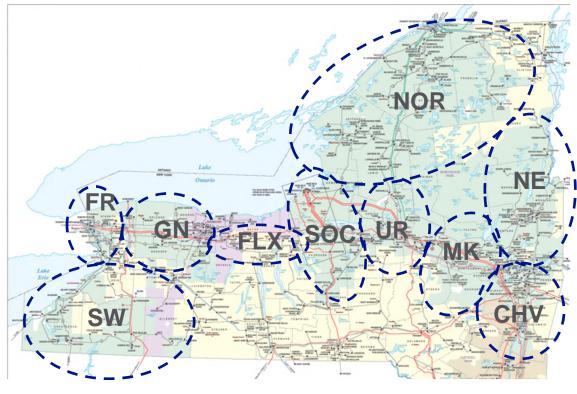
Pursuant to the NYPSC's "Order on Phase 1 Local Transmission and Distribution Project Proposals" issued and effective February 11, 2021 ("Phase 1 Order") in Case 20-E-0197, on November 8, 2021, National Grid filed its 2030 CLCPA Regional Transmission Plan along with the Company's recommended transmission solutions designed to mitigate the effects of climate change and in support of New York State's efforts to decarbonize the electric grid. Specific to that filing the Company requested that the NYPSC approve the scope of National Grid's proposed CLCPA "Phase 1" investment plan.

The Company's filing is still pending NYPSC approval and if approved will follow National Grid's normal project development process including siting and permitting and any necessary interconnection studies.

National Grid Statistics - NY

# Customers	1,671,024
LSE Square Miles	25,013
Transmission Ckt Miles	6,050
Tx 69 & 115kV Ckt Miles	4,785
# Tx Substations	192
# Dx Substations	397
# Power of Transformers	1,184
# Circuit of Breakers	4,778
NYISO Zones	A-F

National Grid Planning Areas



Base Map from NYISO

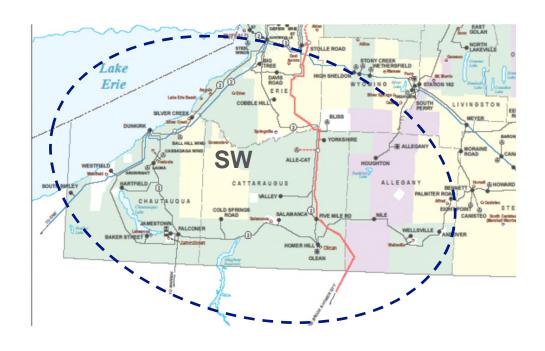
- •FR Frontier
- •SW Southwest
- •GN Genesee
- •FLX Finger Lakes
- •SOC Syracuse/Oswego/Cortland
- •NOR Northern
- •UR Utica/Rome
- •MK Mohawk
- •NE Northeast
- •CHV Capital/Hudson Valley

CLCPA Phase 1 Projects

MVT

Foundational to future projects that increase headroom.

Southwest



- South of Buffalo/Gardenville, Dunkirk, Olean
- Southern Erie,
 Chautauqua,
 Cattaraugus, Allegany
 Counties

CLCPA Phase 1 projects in the Southwest pocket increase headroom by 190 MW.

Southwest

Project Name	Description	Status	Article VII Status	Expected In-Service Date
Andover Station Line 157 Upgrades	Upgrade terminal Equipment at Andover (CLCPA)	Concept	Not Required	11/2022
Nile Hill Upgrades on line 157	Upgrade terminal equipment at Nile Hill Switch Structure (CLCPA)	Concept	Not Required	11/2022
Laona-Moons-Falconer Dynamic Line Ratings	Add monitoring Equipment to implement DLR (CLCPA)	Concept	Not Required	10/2023
Dunkirk-Laona 161/162 Reconductor	115kV Rebuild approximately 5 miles (CLCPA)	Concept	Not Required	06/2026

Genesee



Base Map from NYISO

- Lockport, Batavia, Avon, Mortimer
- Eastern Niagara,
 Orleans, Genesee,
 Wyoming, Livingston,
 Monroe, Ontario
 Counties

CLCPA Phase 1 Projects increased headroom in the Genesee pocket by 420MW.

Genesee

Project Name	Description	Status	Article VII Status	Expected In-Service Date
North Leroy 115kV Terminal Upgrade	Upgrade terminal equipment at North LeRoy (CLCPA)	Concept	Not Required	08/2023
Mumford 115kV Terminal Upgrade	Upgrade terminal Equipment at Mumford (CLCPA)	Concept	Not Required	04/2024
Lockport Smart Valves	Install Smart Valves on Lines 111, 113, 114 at Lockport (CLCPA)	Concept	Not Required	07/2025
Mortimer-Golah 109 - Convert to 115kV	Convert existing 69kV line to 115kV operation (CLCPA)	Concept	Not Required	12/2025
Southeast Batavia-Golah 119 Rebuild	115kV, Rebuild approximately 16 miles (CLCPA)	Concept	Required	10/2028

Syracuse/Oswego/Cortland



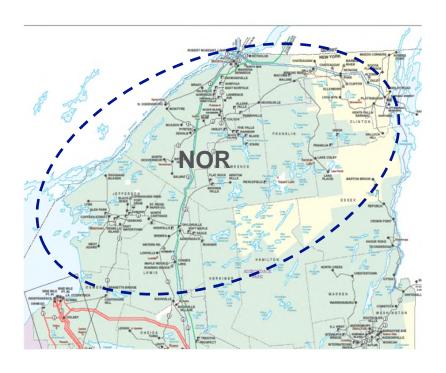
- Elbridge Oswego –
 Oneida Cortland
- Oswego, Onondaga, Cortland, Madison Counties

CLCPA Phase 1 Projects increase headroom by 110MW in the East of Syracuse pocket.

SOC

Project Name	Description	Status	Article VII Status	Expected In-Service Date
	Upgrade Terminal Equipment at Delphi			
Delphi Terminal Upgrades	(CLCPA)	Concept	Not Required	5/2023
Lighthouse Hill - Clay 7 Clearance	Upgrade spans to remove Clearance Limit (CLCPA)	Concept	Not Required	08/2023
Tilden - Cortland Line 18 Clearance	Upgrade spans to remove Clearance limit (CLCPA)	Concept	Not Required	11/2023
Tilden Line 18 Terminal Upgrades	Upgrade Terminal Equipment at Tilden (CLCPA)	Concept	Not Required	11/2023
Fenner Line 3,8 Terminal Upgrades	Upgrade Terminal Equipment at Fenner (CLCPA)	Concept	Not Required	08/2024
Cortland Terminal Upgrades	Upgrade Terminal Equipment at Cortland	Concept	Not Required	11/2024

Northern



Base Map from NYISO

- Malone-Potsdam-Watertown-Croghan
- Jefferson, Lewis, Saint Lawrence, Franklin, Clinton, Essex, Herkimer Counties

CLCPA Phase 1 projects increase headroom by 80MW in the Watertown/Oswego/Porter pocket.

Northern

Project Name	Description	Status	Article VII Status	Expected In- Service Date
Malone PAR	Install PAR on Malone - Wills 1-910	Planned	Not Required	07/2025
Maiorie PAR	CTs associated with Lines 1 & 2 to Brown Falls And	Fiailileu	Not Required	0772025
Colton Terminal Equipment	Lines 4 & 5 to Dennison	Planned	Not Required	12/2021
Taylorville Term Equipment Upgrade	Replace station connections and CTs	Planned	Not Required	05/2022
Flat Rock	115kV, Replace ~200ckt ft of conductor	Planned	Not Required	06/2023
Browns Falls Terminal Equipment Upgrade	Replace/Change settings on several CTs on Line 3 & 4	Concept	Not Required	10/2023
	Upgrade terminal Equipment at Coffeen	·		
Coffeen Terminal Equipment	(CLCPA)	Concept	Not Required	10/2023

Mohawk



- Gloversville, Amsterdam, Cobleskill
- Fulton, Montgomery,
 Schoharie, Otsego,
 Schenectady Counties

CLCPA Phase 1 projects increase headroom by 100MW in the Porter – Rotterdam pocket.

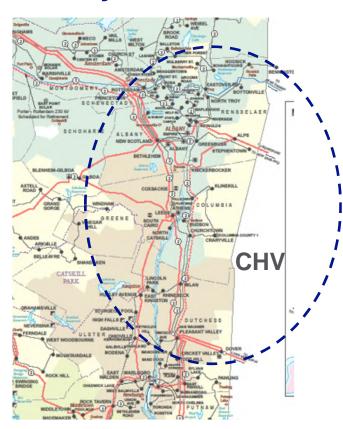
Mohawk (1 of 2)

Project Name	Description	Status	Article VII Status	Expected In-Service Date
Schoharie-Schenectady International-Rotterdam 18/4 Rebuild	Rebuild approximately 1 mile of 69kV Lines18/4 outside Rotterdam	Planned	Not Required	09/2024
Rotterdam 69kV Rebuild	Add a second 115/69kV transformer at Rotterdam and rebuild existing 69kV	Planned	Not Required	02/2026
Marshville 115kV Rebuild	Upgrade terminal equipment and replace 115/69kV transformers at Marshville (CLCPA)	Concept	Unknown	05/2024
	Rebuild substation with two 115/69kV transformers and upgrade terminal	·		
Meco 115kV Rebuild	equipment (CLCPA)	Concept	Unknown	07/2025

Mohawk (2 of 2)

Project Name	Description	Status	Article VII Status	Expected In-Service Date
Stoner Station upgrades	Upgrade terminal equipment at Stoner (CLCPA)	Concept	Unknown	03/2023
Clinton Station upgrades	Upgrade terminal equipment at Clinton (CLCPA)	Concept	Unknown	05/2023
Rotterdam 10/12 Terminal Upgrades	Upgrade terminal equipment on Lines 10 & 12 at Rotterdam (CLCPA)	Concept	Unknown	07/2023
Inghams-Rotterdam	Rebuild the 115kV corridor from Inghams to Meco to Stoner to Maple Ave to Church St to	Concept	Deguired	00/2022
Rebuild Inghams-Marshville	Rotterdam (CLCPA) Rebuild Inghams – Marshville (CLCPA)	Concept	Required	09/2029

Capital & Hudson Valley



- Albany-Schenectady-Troy, Hudson
- Albany, Schenectady, Rensselaer, Greene, Columbia, Dutchess Counties

CLCPA Phase 1 projects increase headroom by 230MW in the Albany South pocket.

CHV

Project Name	Description	Status	Article VII Status	Expected In-Service Date
Blue Stores "Tap" Rebuild	Rebuild 2 miles of 115kV from main corridor to substation (CLCPA)	Concept	Not Required	1/2025

National Grid LTP - CLCPA

Interested parties may submit written comments on National Grid's LTP - CLCPA within 30 days (March 11, 2022) to:

Mark Domino PE, Engineering Manager

Transmission Planning - NY

National Grid

300 Erie Blvd, West

Syracuse, NY 13202

• TransmissionPlanning@nationalgrid.com

This LTP will be posted on the National Grid OASIS website:

https://www9.nationalgridus.com/oasis/

TGP-28 – Transmission Planning Guide - may be found at:

https://www9.nationalgridus.com/oasis/non_html/TGP28%20lssue%205%20Jan%2027%202020.pdf

nationalgrid