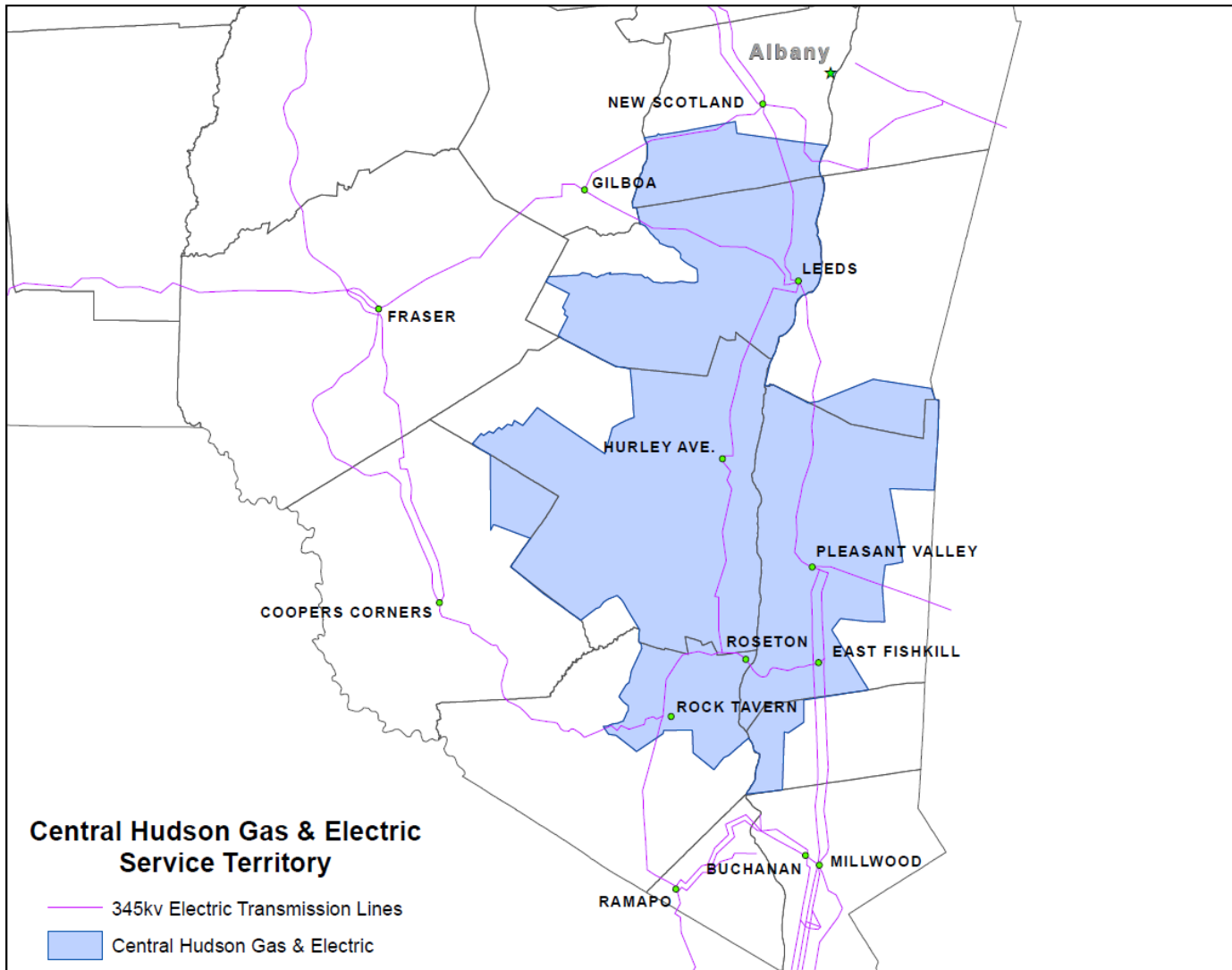


Local Transmission Plan

October 2019



Central Hudson's Service Territory



Own & Operate approximately 610 miles of 69 kV, 115 kV & 345 kV transmission lines and three 345 kV substations

Serving ~300,000 electric customers

Zone G: Majority of Central Hudson's load

Zone E: One small distribution substation

Historic Peak Loads

Summer Peak Loads				Winter Peak Loads			
Year	NYCA	Zone G	CHG&E+	Year	NYCA	Zone G	CHG&E+
2009	30,844	2,159	1,107	2009-10	24,074	1,527	909
2010	33,452	2,399	1,229	2010-11	24,654	1,586	905
2011	33,865	2,415	1,225	2011-12	23,901	1,618	861
2012	32,439	2,273	1,168	2012-13	24,658	1,539	892
2013	33,956	2,358	1,202	2013-14	25,738	1,700	938
2014	29,782	2,036	1,060	2014-15	24,648	1,556	874
2015	31,139	2,151	1,059	2015-16	23,319	1,496	863
2016	32,075	2,123	1,088	2016-17	24,164	1,549	862
2017	29,699	2,063	1,034	2017-18	25,081	1,638	904
2018	31,861	2190	1,114	2018-19	24,727	1,618	900
2019	30,397	TBD	1,109				

+ CHG&E Loads not coincident with other NYCA loads

Forecast Peak Loads

Summer Forecast

Year	NYCA*	Zone G*	CHG&E+
2020	32,202	2,199	1,065
2021	32,063	2,177	1,063
2022	31,971	2,174	1,067
2023	31,700	2,180	1,068
2024	31,522	2,176	1,065

* From 2019 “Gold Book”
Table I-3a

+ CHG&E 50/50 Forecast
(includes impact of energy
efficiency and PV)

Facilities Covered by Central Hudson's Local Transmission Plan

- Central Hudson's Local Transmission Plan is intended to provide safe & reliable service to the load within our franchise area.
- This plan does not address state-wide issues such as intra-state and inter-state transfer limits.
- This plan does not address "in-kind" equipment replacements.

Facilities Covered by Central Hudson's Local Transmission Plan

- **Transmission lines**
 - 115 kV
 - 69 kV
- **Transmission system transformers**
 - 345/115 kV
 - 115/69 kV
- **Substation facilities**
 - 345 kV
 - 115 kV
 - 69 kV

Planning Horizon

Annual planning process:

- First 5 years - corporate capital forecast
 - generally “firm” projects
 - budgetary cost estimates
 - estimated in service date
- Additional 5 years (years 6 – 10)
 - generally “potential” projects
 - planning cost estimates
 - estimated in service date

Issues Addressed

- Infrastructure Condition: Central Hudson Transmission System Infrastructure facility inspection reports, condition assessments and diagnostic test data
- Compliance requirements: NESC, NERC, etc.
- Reactive Support: Maintain sufficient reactive support for local needs

Issues Addressed

- Central Hudson's System Load Serving Capability
 - Consideration of through-flows
 - Consideration of proposed interconnections
- Central Hudson's Local Area Load Serving Capabilities
 - Northwest 69 kV
 - Southwest 69 kV
 - Southern Dutchess 115 kV
 - Mid Dutchess 115 kV
 - Ellenville Area
 - Newburgh Area
 - Eastern Dutchess 69 kV
 - Kingston – Milan

Projects Addressing Infrastructure Condition Issues

Firm Projects

Project	Area	County	Issue	Status	SIS	Article VII	In Service Date
69 kV Pleasant Valley – Todd Hill Rebuild	Eastern 69 kV	Dutchess	Condition Assessment of Structures	Complete	n/a	Part 102C	Complete
115 kV East Fishkill – Shenandoah Rebuild	Southern Dutchess 115 kV	Dutchess	Condition Assessment of Structures	Complete	n/a	Part 102C	Complete
North Chelsea 115/69 kV transformer replacement	Eastern 69 kV	Dutchess	Condition Assessment of Transformer	Construction	n/a	n/a	December 2019
115 kV East Fishkill – Fishkill Plains Rebuild	Southern Dutchess 115 kV	Dutchess	Condition Assessment of Structures	Pre-Construction	n/a	Part 102C filed 2018	Summer 2020
Two North Catskill 115/69 kV transformer replacement	Northwest Area	Greene	Condition Assessment of Transformers	Design	n/a	n/a	Fall 2020

Firm Projects

Project	Area	County	Issue	Status	SIS	Article VII	In Service Date
Retire 69 kV Dashville - Ohioville		Ulster	No Longer Needed due to Installation of Sturgeon Pool 115/69 kV Transformer	De-energized Removal in Design	n/a	Local permit may be required	December 2020
69 kV North Catskill – Lawrenceville – S. Cairo Rebuild	Northwest 69 kV	Greene	Condition Assessment of Structures	Pre-construction	n/a	Part 102C filed 2018	December 2020
69 kV Myers Corners – North Chelsea Rebuild	Eastern 69 kV	Dutchess	Condition Assessment of Structures	In Design	n/a	Part 102C filed 2019	December 2021
69 kV Myers Corners – Knapps Corners Rebuild	Eastern 69 kV	Dutchess	Condition Assessment of Structures	In Design	n/a	Part 102C filed 2019	December 2022
Kerhonkson 115/69 kV Substation	Ellenville	Ulster	Condition Assessment of Structures and Substation Equipment	In Design	n/a	Article VII Approved (may need amendment)	December 2022

Firm Projects

Project	Area	County	Issue	Status	SIS	Article VII	In Service Date
Convert P & MK Lines from 69 kV to 115 kV	Ellenville	Ulster	Condition Assessment of Structures and Substation Equipment	Line Construction Largely Complete In Design	n/a	Article VII Approved (may need amendment)	December 2022
Retire 115 kV Rock Tavern – Sugarloaf – NJ		Orange	Condition Assessment of Structures & Conductor	In Planning	n/a	Local permit may be required	December 2022
69 kV Hurley Ave. – Saugerties – North Catskill Rebuild (for 115 kV)	Northwest 69 kV	Ulster Greene	Condition Assessment of Structures	In Design	n/a	Article VII Deemed Complete	December 2023
69 kV HG Line from Honk Falls to Neversink	Ellenville	Ulster Sullivan	Condition Assessment of Structures	In Planning	n/a	Part 102C Required	December 2023

Potential Projects

Project	Area	County	Issue	Status	SIS	Article VII	In Service Date
69 kV Pleasant Valley – East Park – Staatsburg – Rhinebeck Rebuild	Eastern 69 kV	Dutchess	Condition Assessment of Structures	In Planning	n/a	Part 102C Required	December 2025
115 kV Spackenkill – Knapps Corners Rebuild	Mid-Dutchess 115 kV	Dutchess	Condition Assessment of Structures	In Planning	n/a	Part 102C Required	To Be Determined
Retire GM Clinton Tap	Ellenville	Ulster	Condition Assessment of Structures	In Planning	n/a	Local permit may be required	To Be Determined

Comments

Interested parties should forward any comments to:

Ruby Chan
Engineer
rchan@cenhud.com

Central Hudson Gas & Electric Corporation
Electric Transmission Planning
284 South Avenue
Poughkeepsie, NY 12601