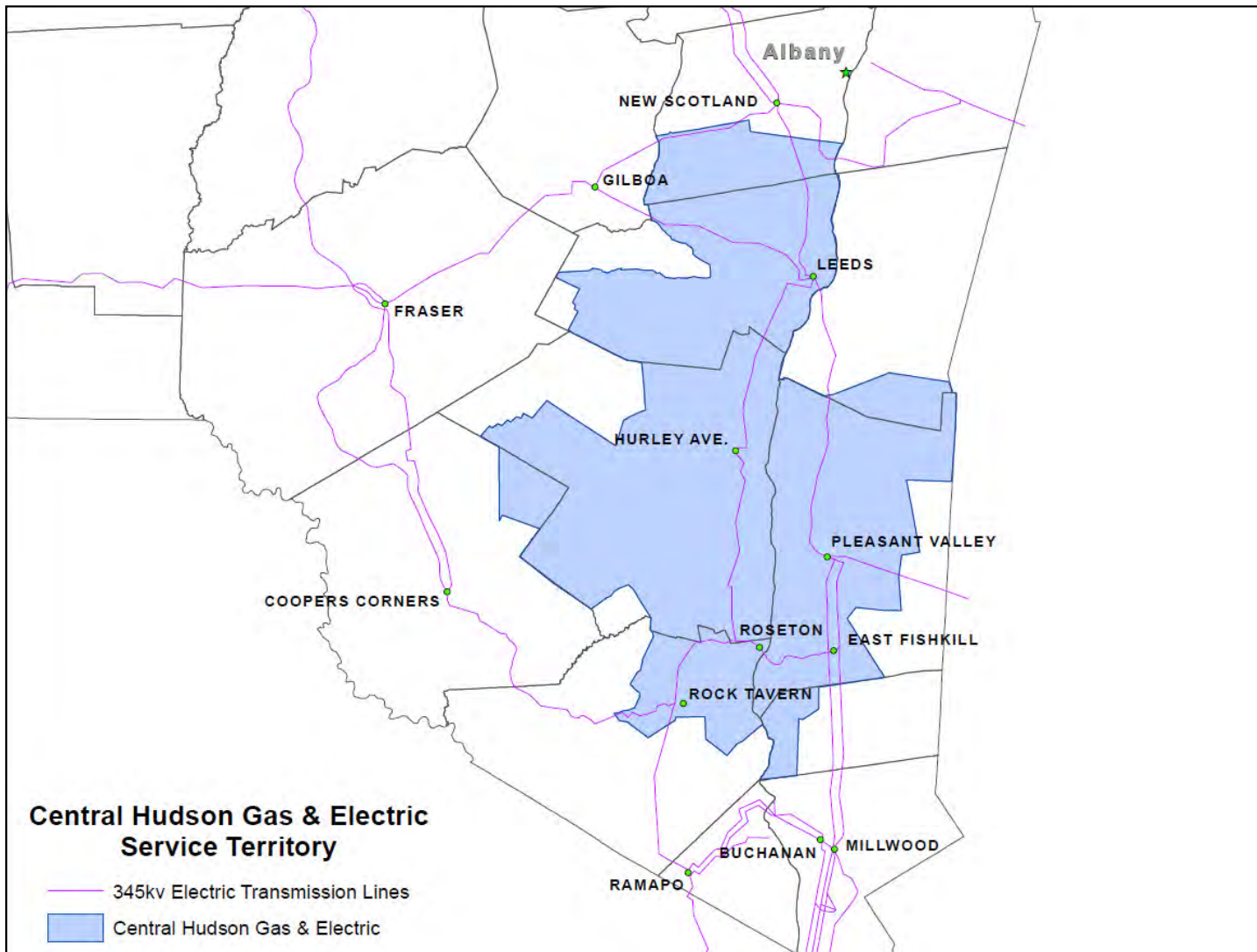


Local Transmission Plan

Rev. 1: April 2018



Central Hudson's Service Territory



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

Central Hudson's Transmission System

- Zone G: Majority of Central Hudson's load
- Zone E: One small distribution substation
- Central Hudson interconnects with:
 - Consolidated Edison
 - Orange & Rockland
 - NYSE&G
 - National Grid
 - NYPA
 - Eversource
 - First Energy

Historic Peak Loads

Summer Peak Loads				Winter Peak Loads			
Year	NYCA	Zone G	CHG&E+	Year	NYCA	Zone G	CHG&E+
2007	32,169	2,316	1,185	2007-08	25,021	1,727	960
2008	32,432	2,277	1,187	2008-09	24,673	1,634	911
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	2063	1,034	2017-18	25,081	1,638	904

+ CHG&E Loads not coincident with other NYCA loads

Forecast Peak Loads

Summer Forecast

Year	NYCA*	Zone G*	CHG&E+
2018	33,078	2,218	1,051
2019	33,035	2,197	1,030
2020	32,993	2,180	1,023
2021	33,009	2,169	1,016
2022	33,034	2,157	1,011
2023	33,096	2,151	1,008
2024	33,152	2,145	1,005
2025	33,232	2,140	1,003
2026	33,324	2,136	1,001
2027	33,398	2,132	999

* From 2017 “Gold Book”
Table I-2a

+ 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 and 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

Data & Models

- Load Flow cases produced by NYISO Staff
 - NYISO Staff solicits input from all Transmission Owners
- Individual historic substation loads, updated where necessary, to be coincident with Central Hudson's peak hour

Issues Addressed

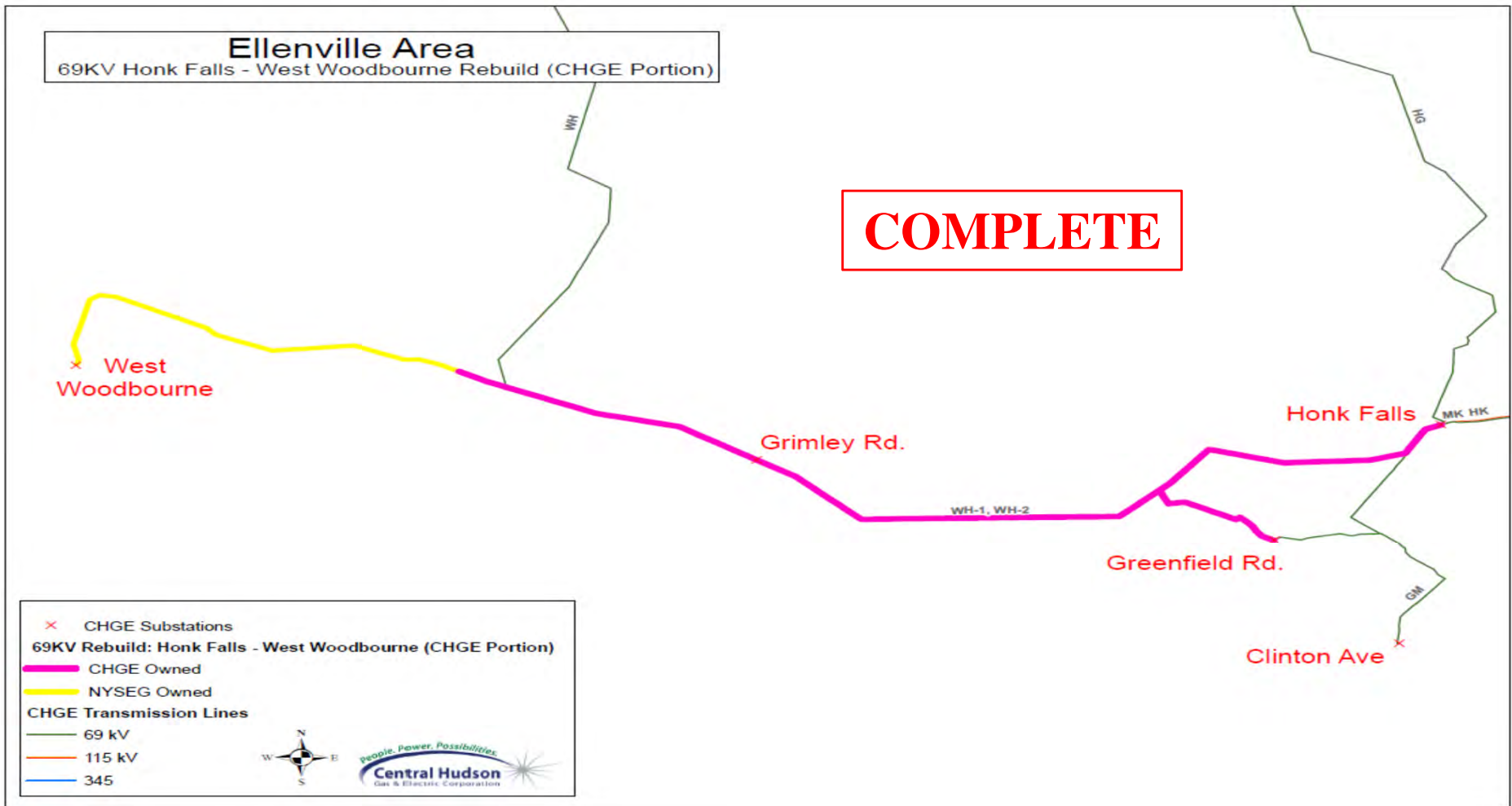
- Infrastructure Condition: Central Hudson Transmission System Infrastructure facility inspection reports, condition assessments and diagnostic test data
- Compliance requirements: NESC, NERC, etc.
- Reactive Support: Maintain sufficient reactive support for local needs

Issues Addressed

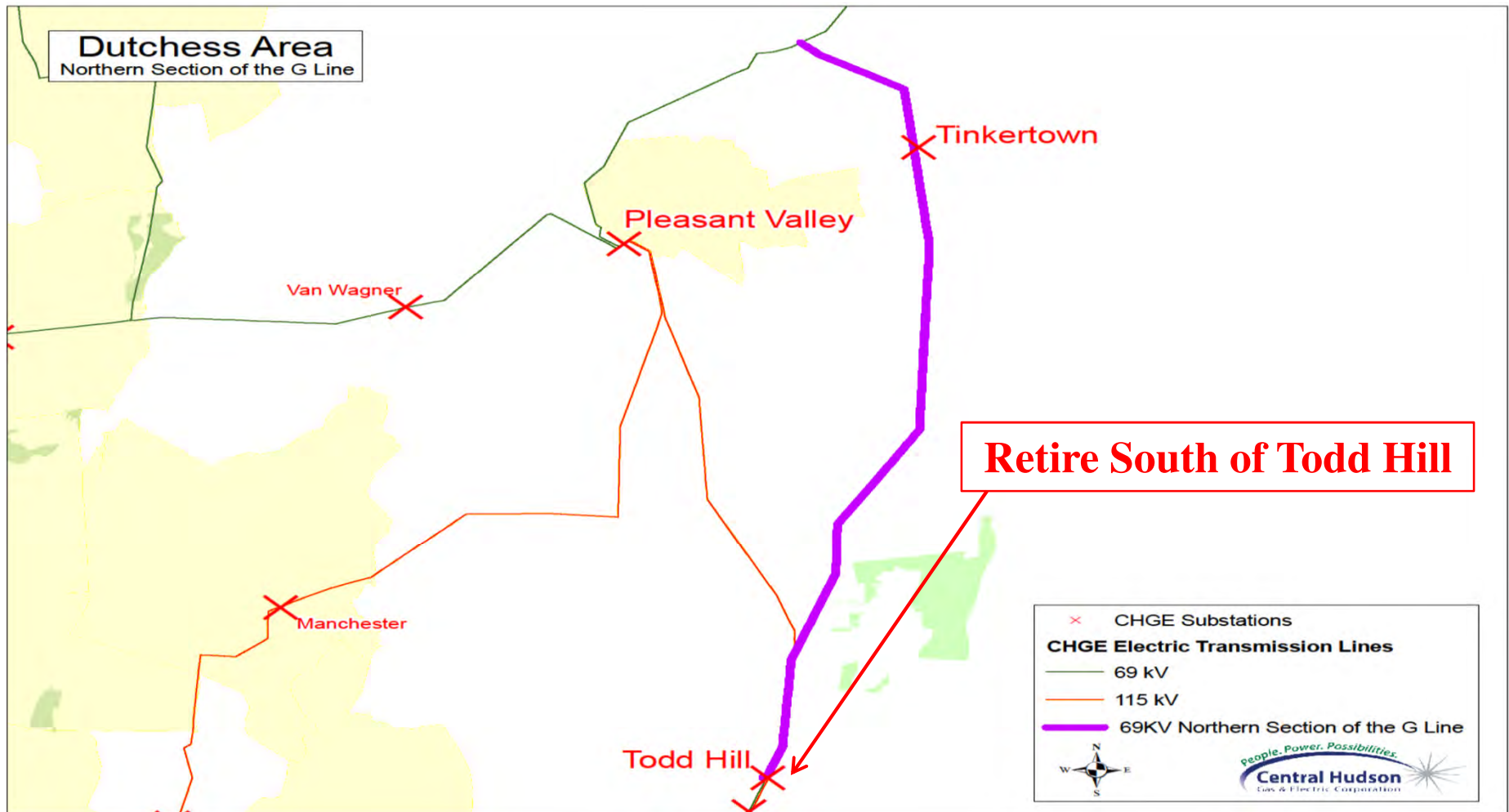
- Central Hudson's System Load Serving Capability
 - Consideration of through-flows
 - Consideration of proposed interconnections
- Central Hudson's Local Area Load Serving Capabilities
 - Northwest 69 kV
 - Southwest 69 kV
 - Southern Dutchess 115 kV
 - Mid Dutchess 115 kV
 - Ellenville Area
 - Newburgh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

Projects Addressing Infrastructure Condition Issues

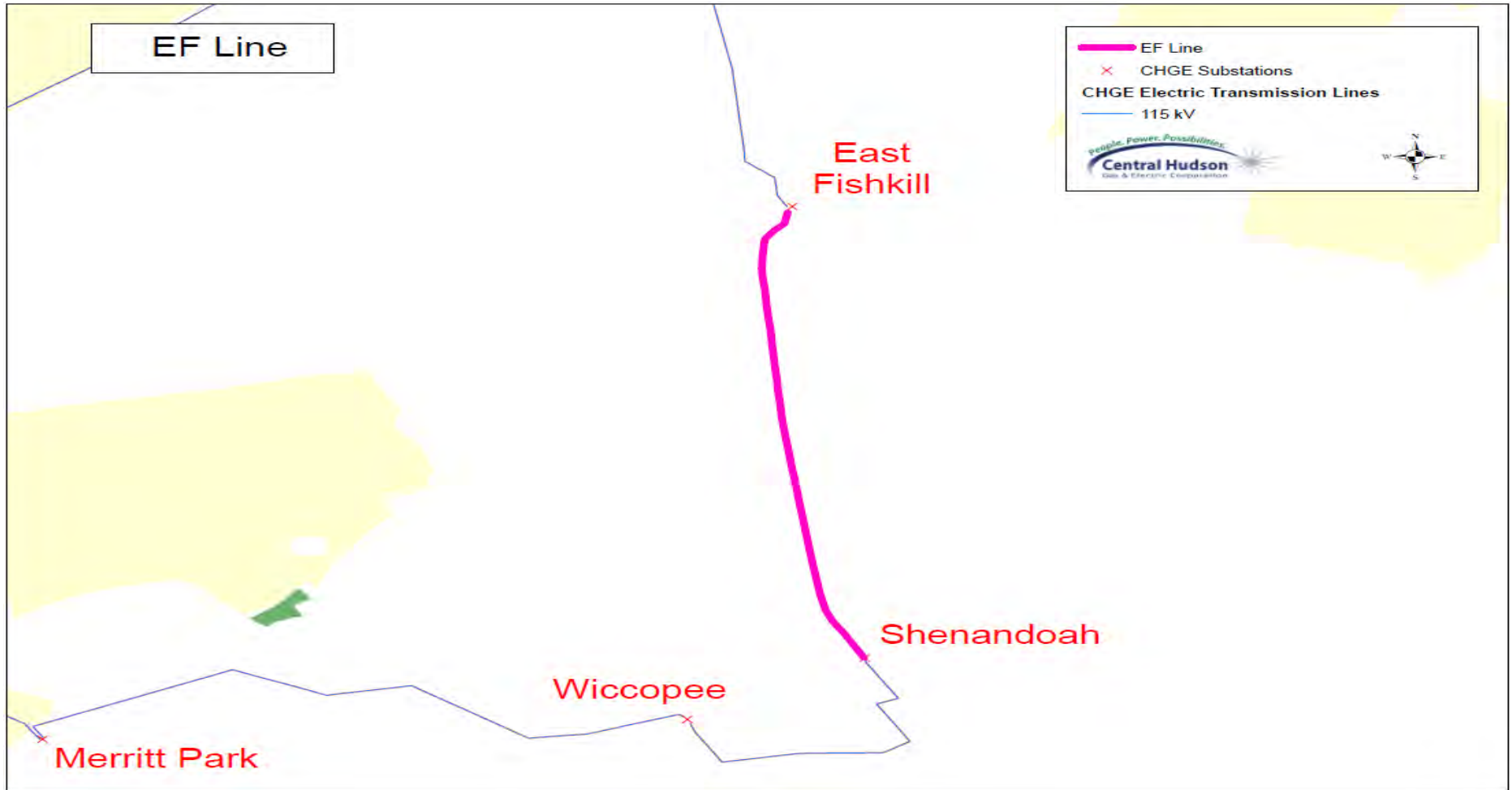
Project	Type	Issue	Status	In Service
69 kV Honk Falls – West Woodbourne (WH Line) Rebuild	Firm	Tests show loss of tensile strength for this line’s ACSR conductors.	Complete.	Early 2018



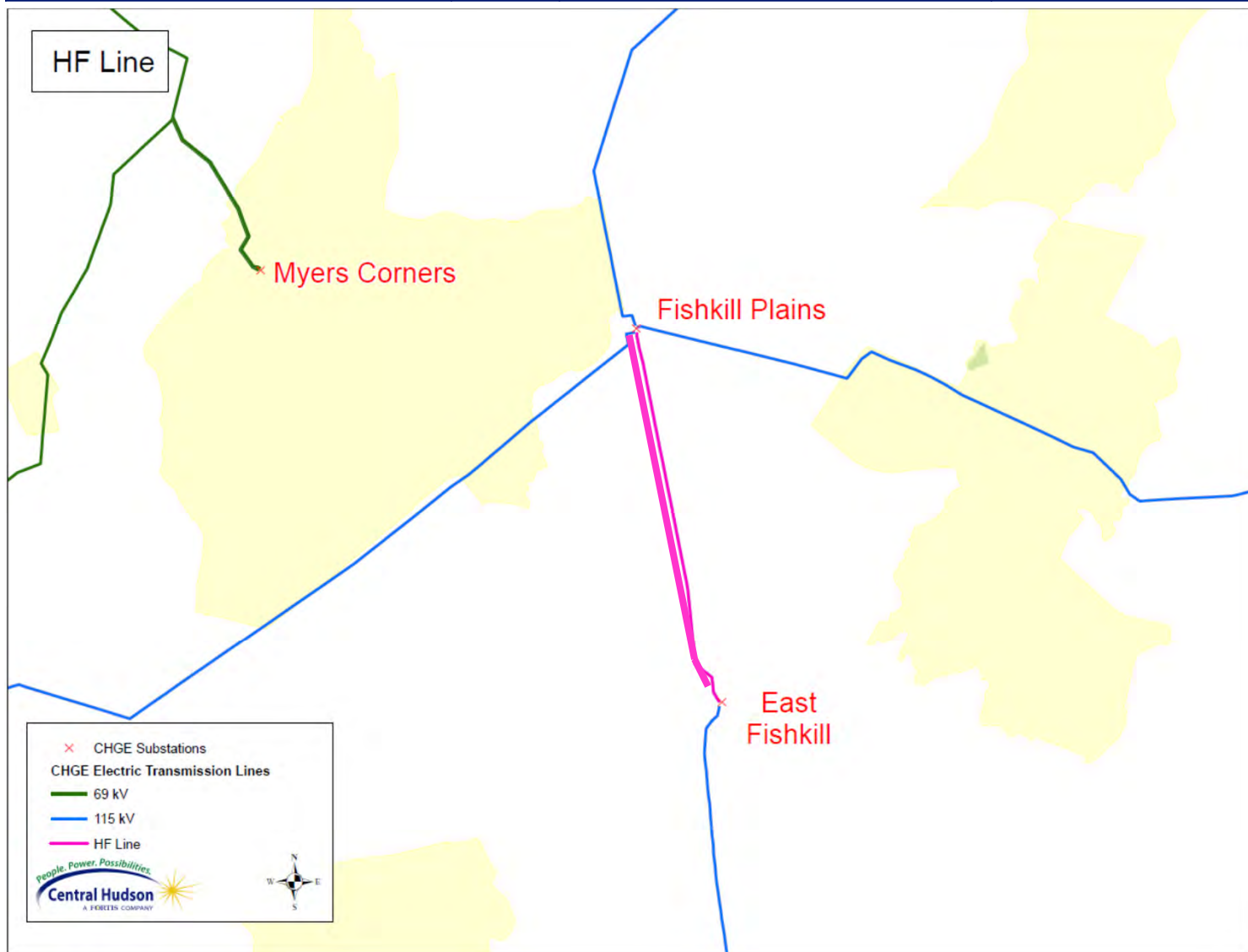
Project	Type	Issue	Status	Proposed In Service
Rebuild part of existing 69 kV between Todd Hill & Pleasant Valley(G Line North)	Firm	Condition assessment of structures identified need for rebuild.	In construction. Part 102-C approved	3rd Quarter of 2018



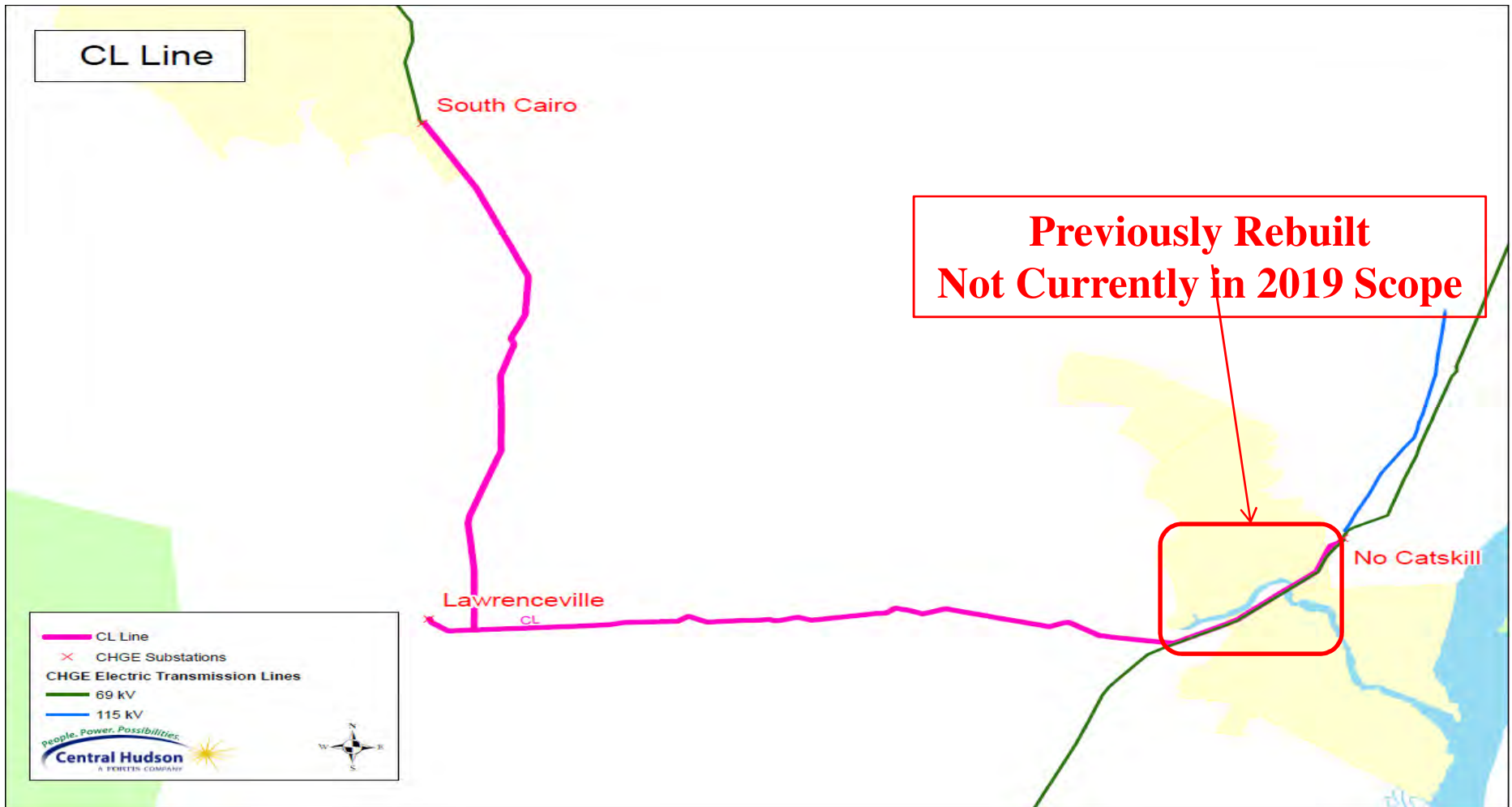
Project	Type	Issue	Status	Proposed In Service
Rebuild existing 115 kV East Fishkill – Shenandoah (EF Line)	Firm	Condition assessment of structures identified need for rebuild.	Design complete. Part 102-C filed (In Pre Construction)	July 2018



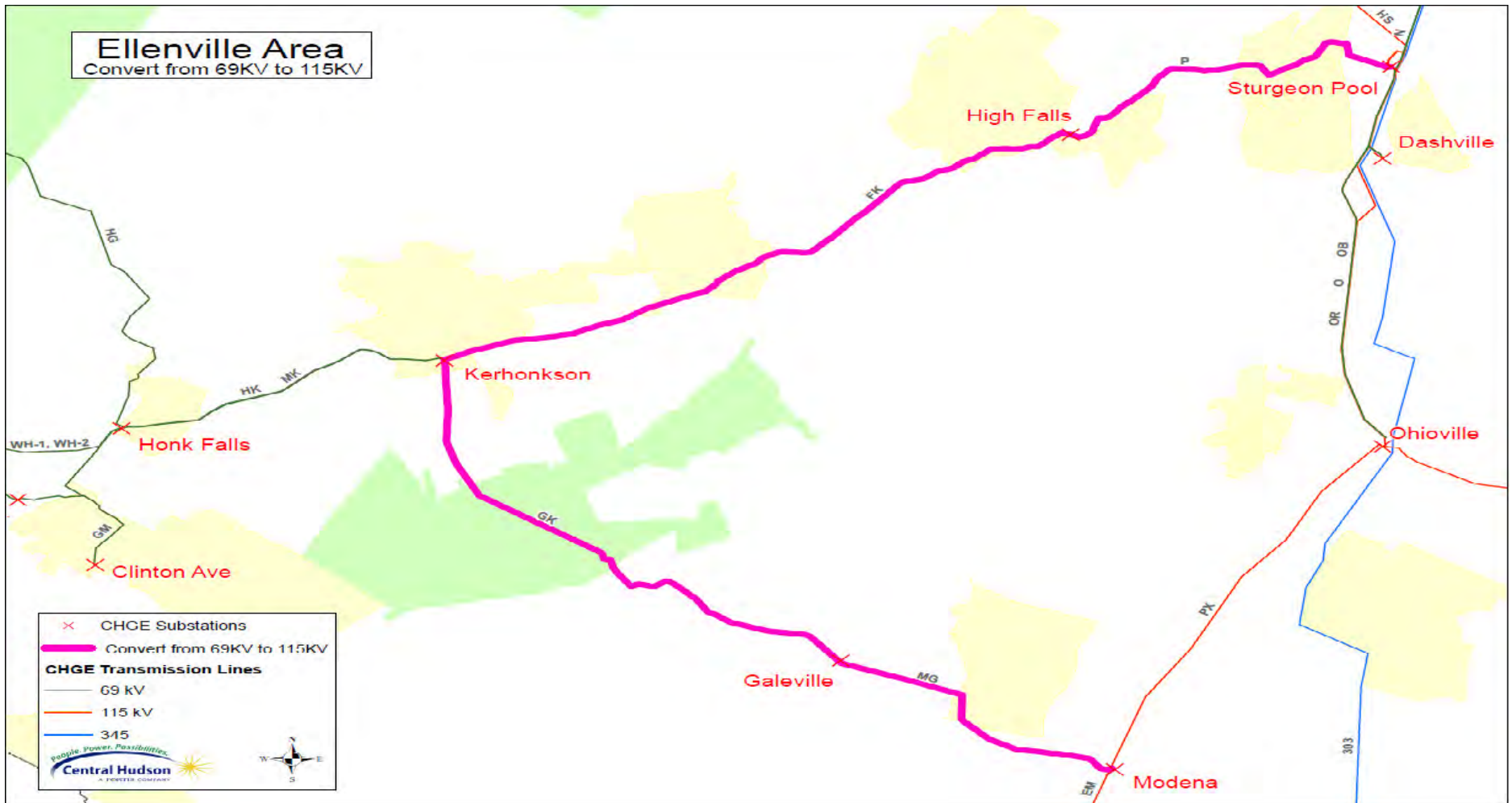
Project	Type	Issue	Status	Proposed In Service
Rebuild existing 115 kV East Fishkill – Fishkill Plains (HF Line)	Firm	Condition assessment of structures identified need for rebuild.	In Design. Part 102C to be filed in 2018	July 2019



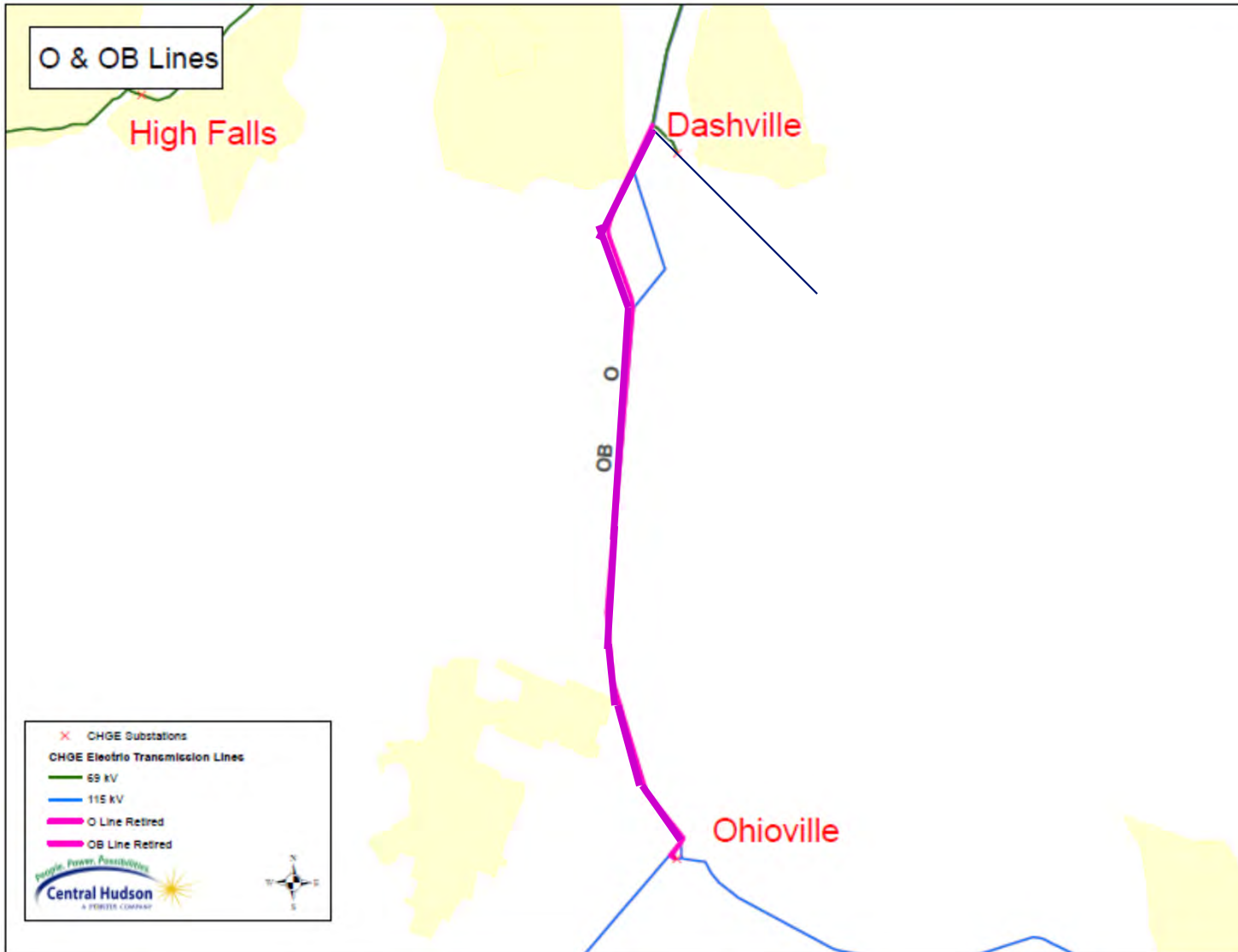
Project	Type	Issue	Status	Proposed In Service
Rebuild part of existing 69 kV N. Catskill to Lawrenceville to S. Cairo (CL Line)	Firm	Condition assessment of structures identified need for rebuild.	In design. Part 102-C filing in 2018	End of 2019



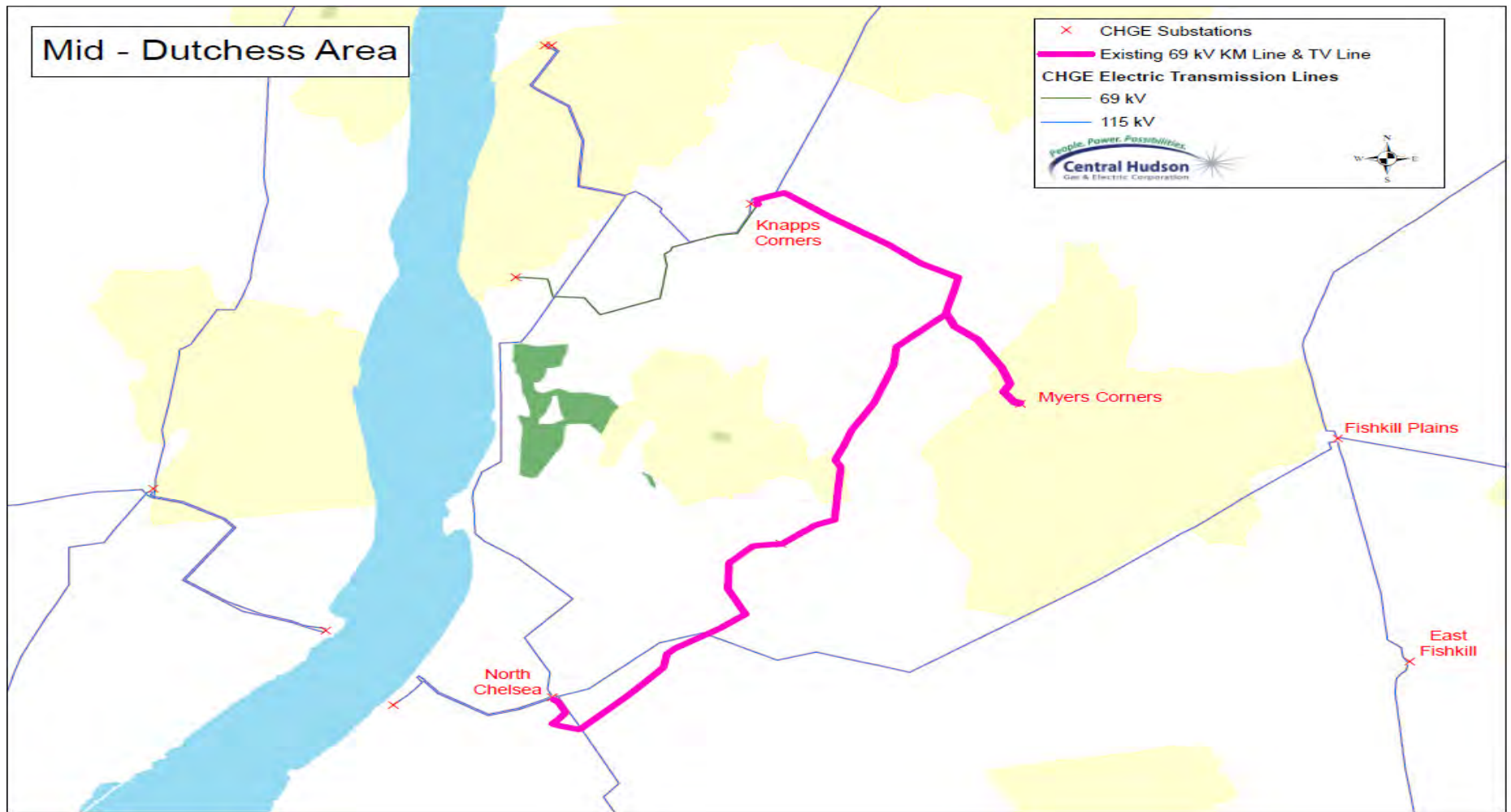
Project	Type	Issue	Status	Proposed In Service
Kerhonkson 115/69 kV Substation	Firm	Condition assessment of structures and substation equipment	In design. Approved Article VII (may need to be amended for additional work)	2021
Convert P&MK Lines from 69 to 115 kV	Firm			2022



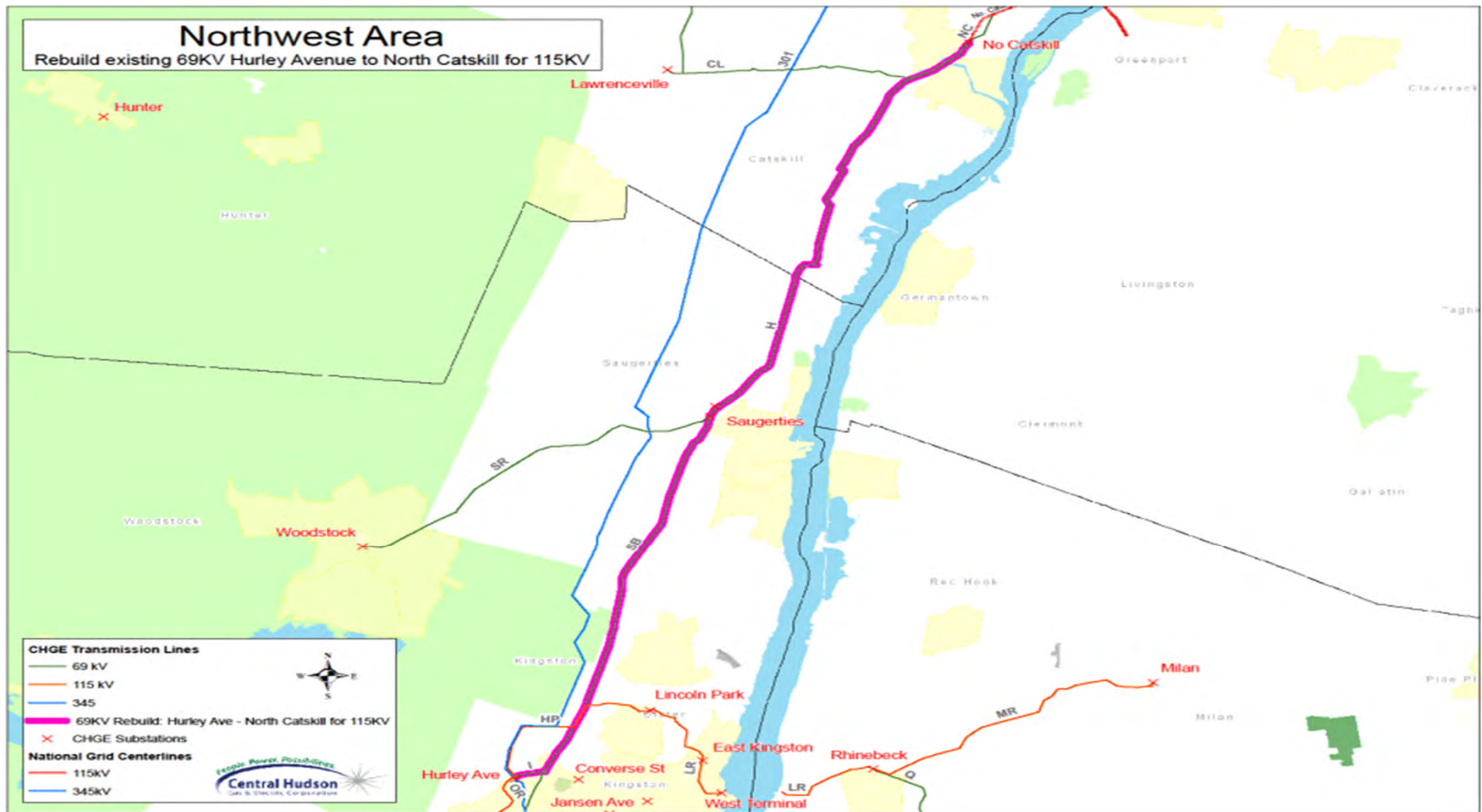
Project	Type	Issue	Status	Schedule
Retire Dashville – Ohioville 69 kV (O & OB Lines)	Firm	No Longer Needed due to Installation of Sturgeon Pool 115/69 kV Transformer	Lines Have Been De-energized.	Complete
			Physical Removal in Design.	End of 2020



Project	Type	Issue	Status	Proposed In Service
Rebuild existing 69 kV Knapps Corners to N. Chelsea (KM/TV Line)	Firm	Condition assessment of structures identified need for rebuild	In design. Part 102-C filing in 2019.	End of 2021



Project	Type	Issue	Status	Proposed In Service
Rebuild existing 69 kV Hurley Ave to N. Catskill for 115 kV (H&SB)	Firm	Condition assessment of structures identified need for rebuild.	In Design. Article VII filed Dec.2017.	End of 2022



Comments

Interested parties should forward any comments to:

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Electric Transmission Planning
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