

October 25, 2023



# Brewster Division Municipal Meeting



# Agenda

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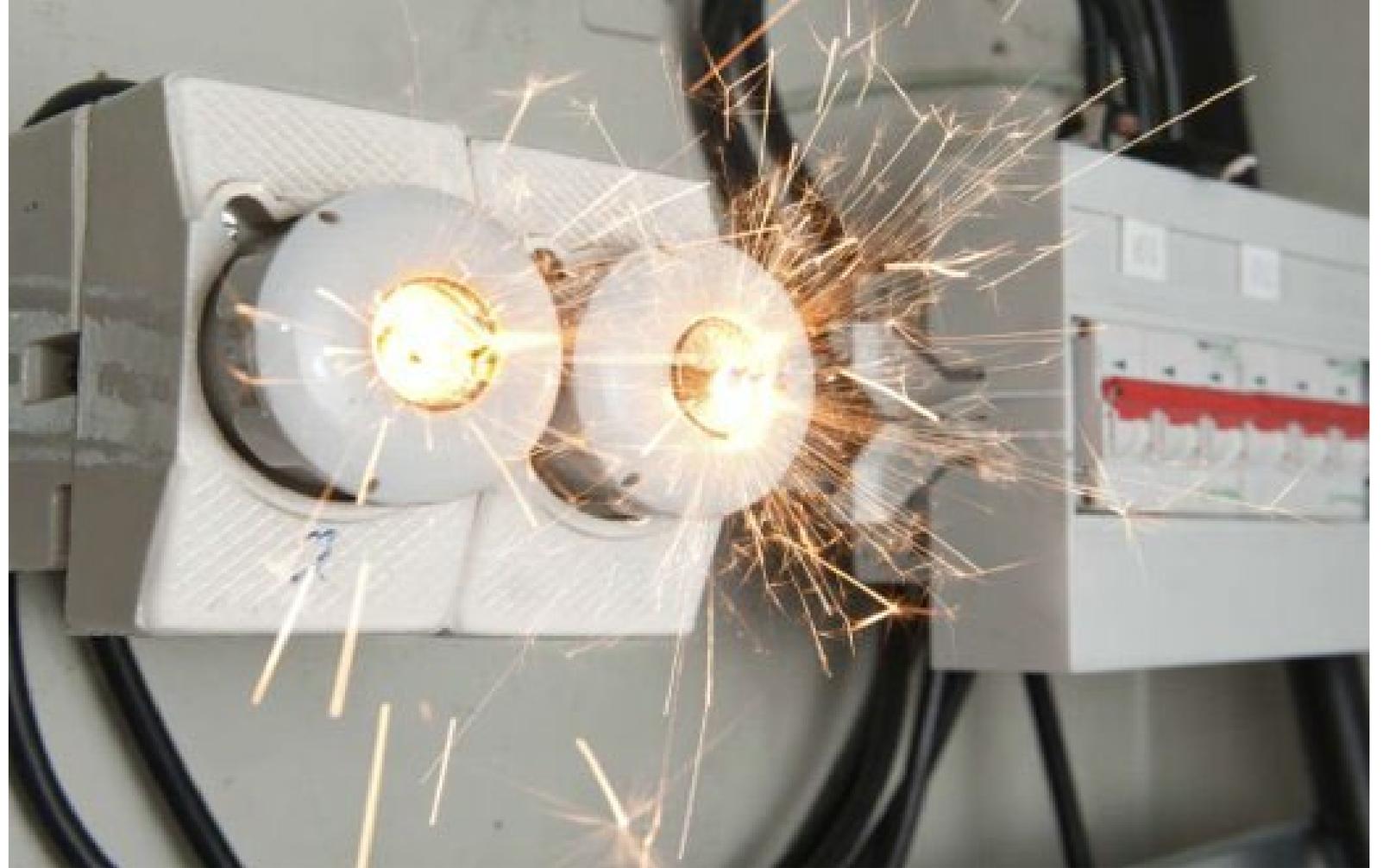


- **Welcome and Introductions**
- **Safety Moment**
- **NYSEG & System Overview**
- **Executive Update**
- **Rate Case**
- **AMI (Smart Meters)**
- **Electric Operations Update**
- **Vegetation Management**
- **Outage by Cause**
- **Community Volunteering & Outreach**
- **Questions**



## Home electrical fires account for annually.....

- 51,000 fires
- Nearly 500 deaths
- More than 1,400 injuries
- \$1.3 Billion in property damage



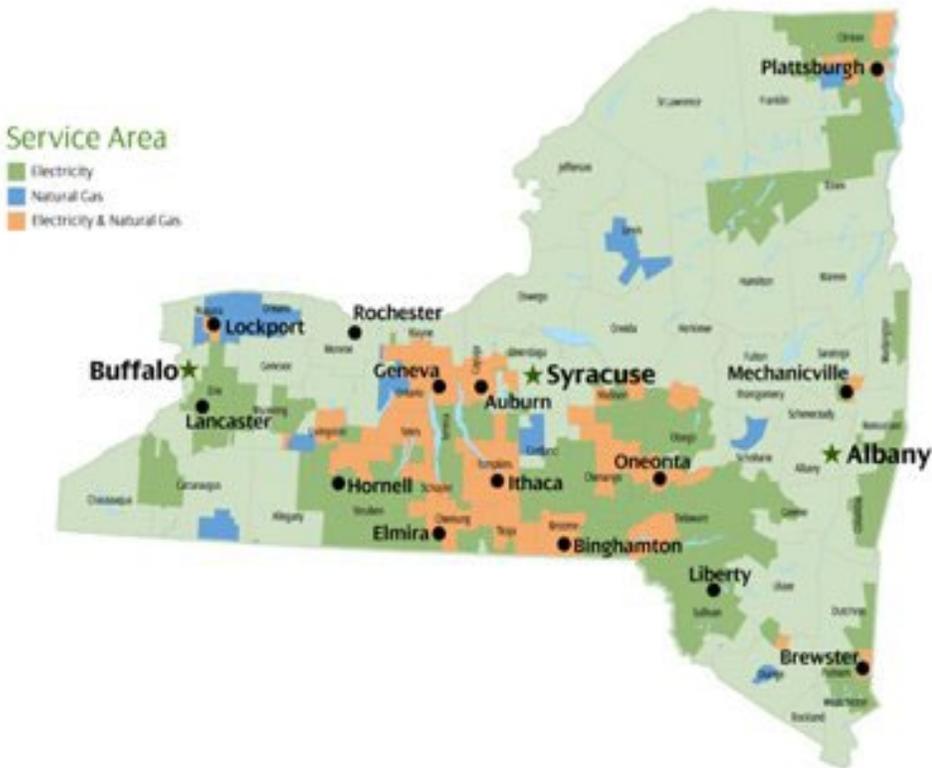


## Prevention Tips:

- Do not touch or handle exposed wires without proper equipment
- Avoid overloading outlets with too many plugs
- Regularly inspect wires and cords for damages
- Keep Flammables, metal objects, and tools away from outlets
- Have all electrical issues handled by certified professionals



# NYSEG Service Territory Overview



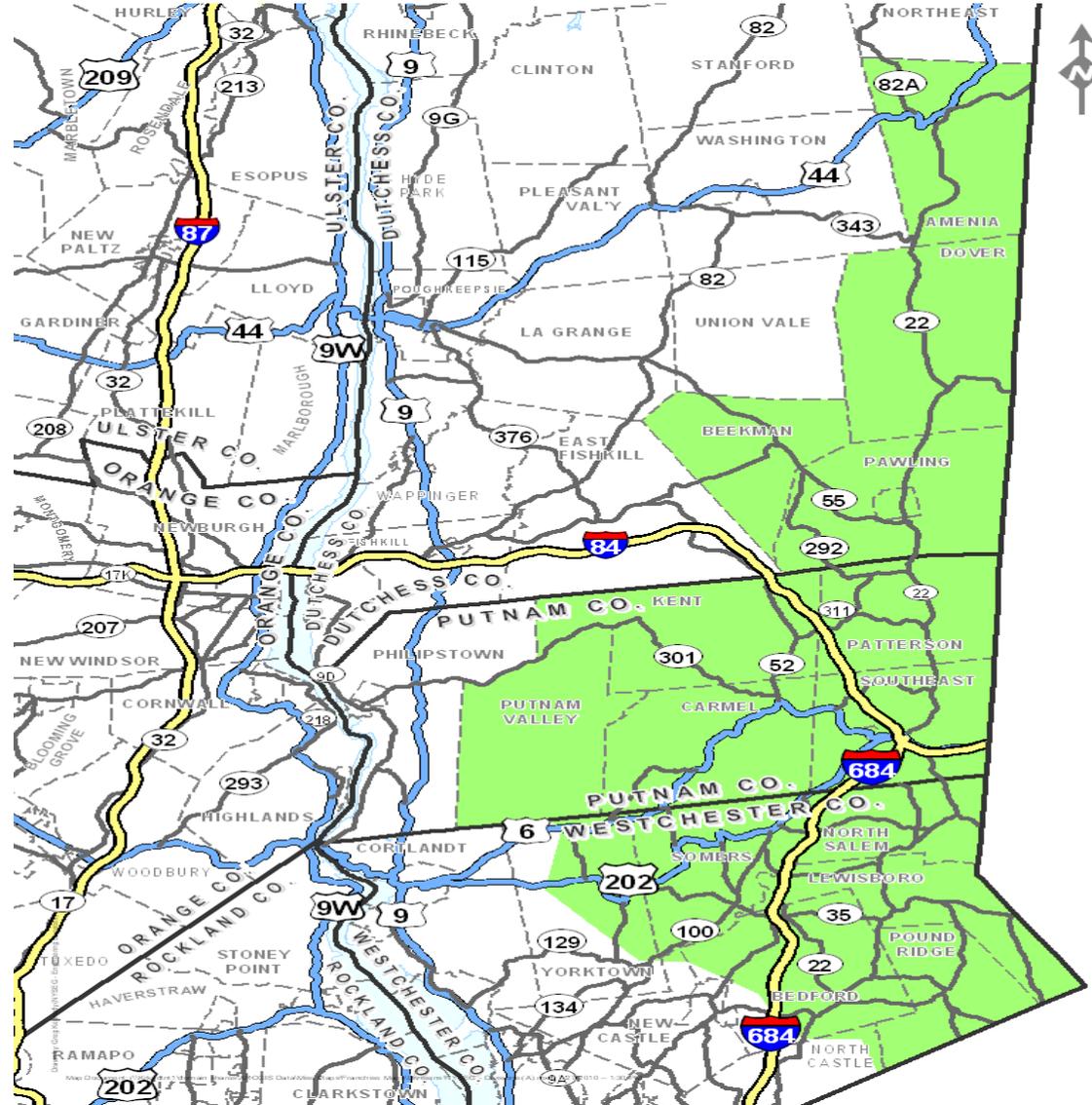
# Brewster Division System Overview- Electric



The Brewster Division is 531 square miles and serves approximately 88,395 electric customers

The electrical system is comprised of:

- 32 substations
- 15 transmission lines
- 95 distribution circuits
- 2,399 circuit miles
- 1,630 overhead miles
- 769 underground miles





# Executive Update



- On October 12, our electric and natural gas joint proposal settlement, Reliable Energy New York, was approved by the New York Public Service Commission (PSC). This agreement is the result of work with the PSC staff and interested groups/parties over the last year to determine how to best meet customer needs and New York State’s policy goals, while maintaining some of the lowest energy rates in the state. The new delivery rates are effective November 1, 2023

The total overall percentage rate increases are summarized below

OPCO	Rate Year 1	Rate Year 2	Rate Year 3
NYSEG Electric	6.6%	7.3%	8.2%
NYSEG Natural Gas	2.0%	2.0%	2.1%
RG&E Electric	5.0%	5.3%	5.7%
RG&E Natural Gas	3.4%	3.6%	3.9%

# Rate Case



The approximate total (delivery and supply) monthly bill impacts for average residential electric (600 kWh/month) and natural gas (1,200 therms/year) customers are summarized below

OPCO	Rate Year 1	Rate Year 2	Rate Year 3
NYSEG Electric	\$9.94	\$8.88	\$11.34
NYSEG Natural Gas	\$4.96	\$2.13	\$4.10
RG&E Electric	\$6.47	\$5.98	\$6.90
RG&E Natural Gas	\$5.29	\$5.44	\$5.41

- Our agreement supports building a smarter, stronger, more resilient grid to serve our customers and enable New York's clean energy future.
- Even after the investments, we will continue to have among the lowest residential electric and natural gas rates in New York.



## Key projects and programs included in this proposal are:

- **Transmission Line Deficiency (TLD) Program** – The TLD Program is intended to proactively repair and/or replace transmission line infrastructure deemed beyond its useful operating life, to reduce outage risks for our customers. This work is informed by various engineering inspection programs, spans across NYSEG’s operating territory, and is prioritized based on the condition of the facility and its overall impact to the system if it were to fail
- **Circuit Breaker Replacement Program** – The Circuit Breaker Replacement Program will proactively replace obsolete transmission and distribution circuit breakers that are at an elevated risk of failure, which can expose our customers to unplanned outages. This work is informed by comprehensive engineering assessments which evaluate the health, criticality, and risk. This program spans across NYSEG’s operating territory and its deployment is based on a prioritization strategy focusing on maximizing overall customer reliability improvements. NYSEG plans on replacing approximately 430 circuit breakers within the 2023-2026 rate case period
- **Distribution Load Relief Program** – The Distribution Load Relief Program will address power transformer capacity (overload) needs throughout NYSEG’s service territory. This work spans NYSEG’s operating territory, is prioritized based on transformer overload impacts, and is central to the Company’s ability to increase system capacity, enable electrification initiatives, and reduce the likelihood of transformer failure risks, which would negatively impact our customers



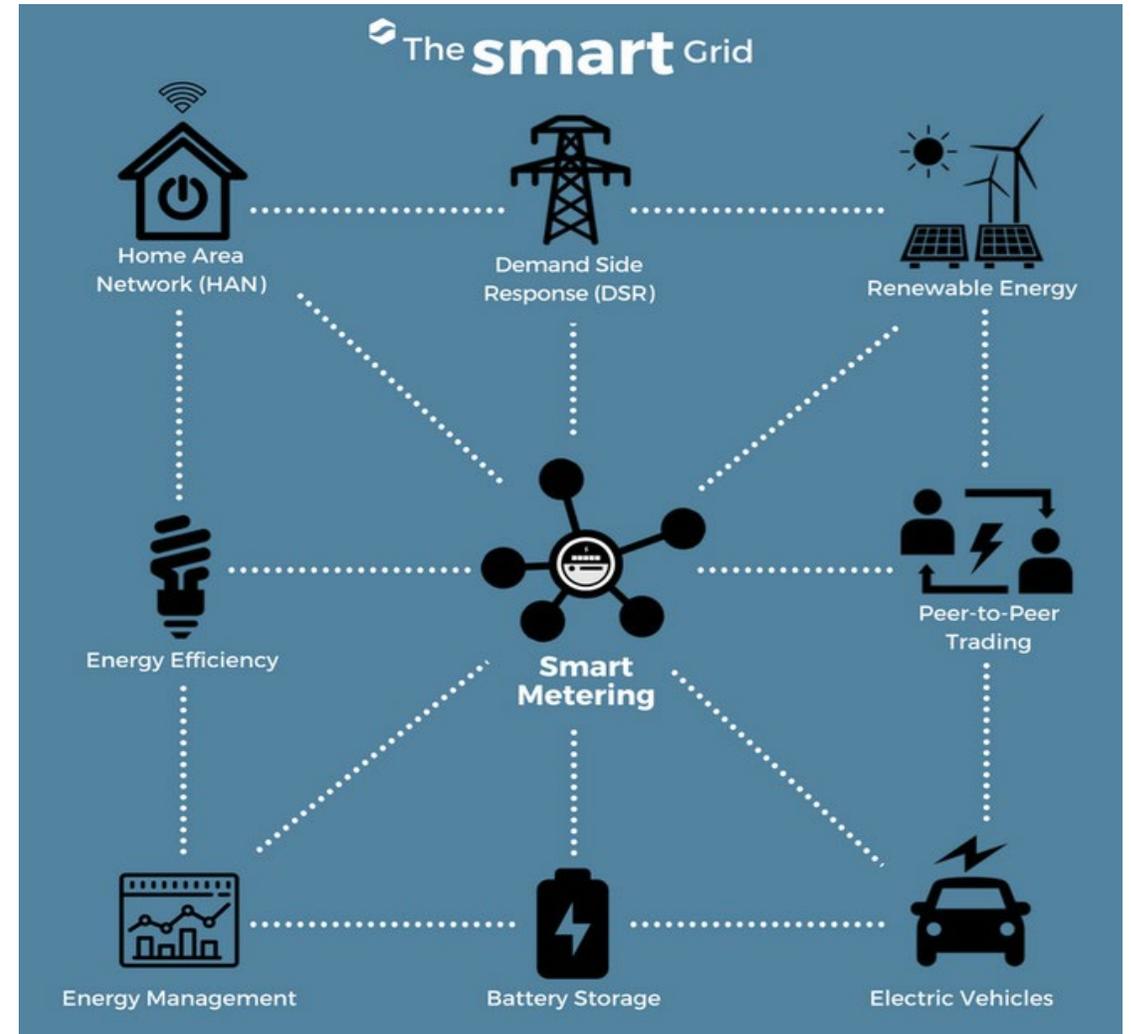
## Key projects and programs included in this proposal are:

- **Resiliency Program** – The Resiliency Program addresses NYSEG’s worst performing circuits during storm activity and proposes system upgrades to reduce outage risks for our customers. Informed by various engineering and analytical studies, the work spans NYSEG’s operating territory, and is prioritized based on historical customer outage impacts. System upgrades include, but are not limited to, the installation of stronger rated poles, tree wire, automatic sectionalization devices, enhanced vegetation management, and the addition of circuit tie points. NYSEG expects to upgrade approximately 25 circuits within the 2023-2026 rate case period.
- **Distribution Automation Program** – The Automation Program addresses NYSEG’s worst performing circuits and proposes system upgrades to reduce outage risks for our customers. It is informed by various studies, spans NYSEG’s entire operating territory, and is prioritized based on historical customer outage impacts. System upgrades include installation of automatic sectionalization devices, which allows for system faults to be isolated, thus limiting the impact to our customers. NYSEG is expected to deploy 1,200 devices across 400 circuits within the 2023-2026 rate case period

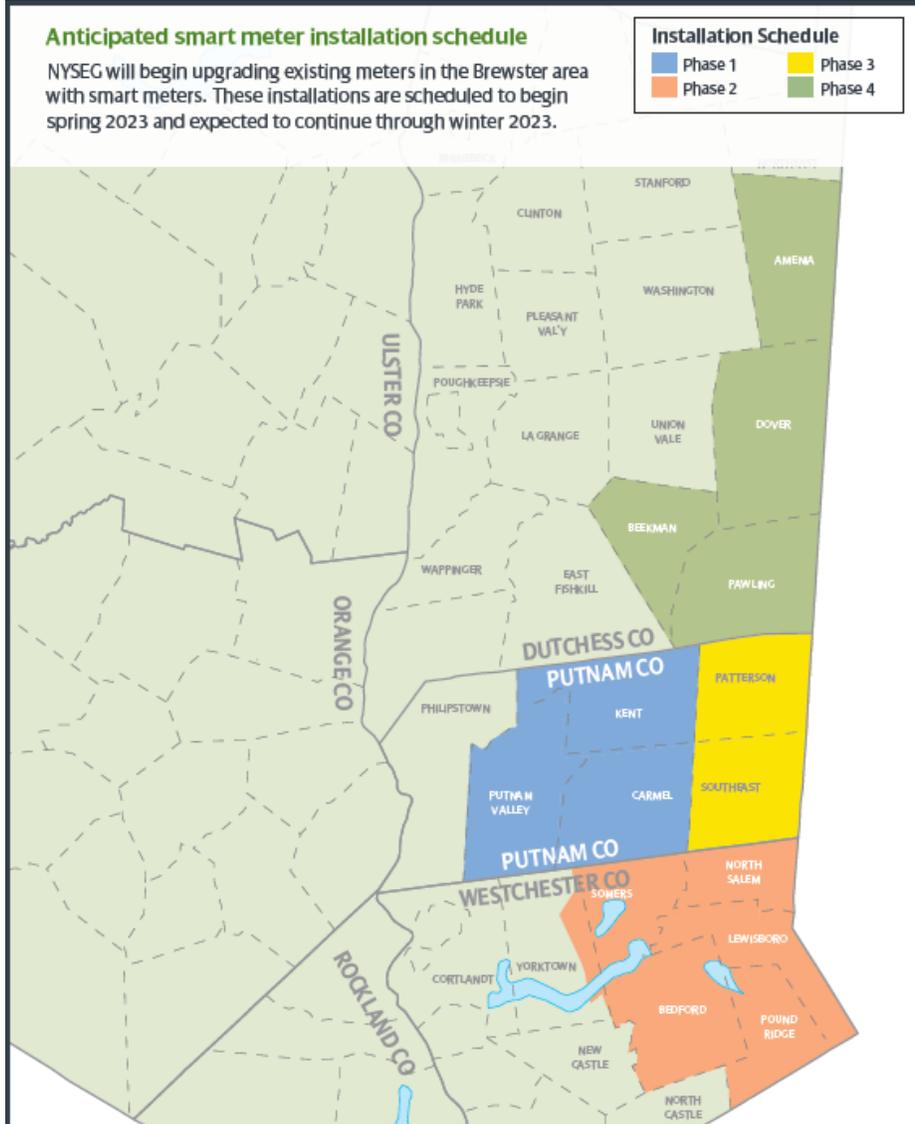


## AMI Customer Benefits

- 1. Account Management** – No estimated billing, energy bills reflect actual usage
- 2. Energy Management** – Data provides customers with usage information to better manage consumption and budgets. Supports energy efficiency efforts and New York State energy policy goals.
- 3. Outage Management** – Automated communications to the utility to improve outage detection, response and power restoration.



# Brewster Installation Schedule



**When:** Installations in NYSEG's Brewster division began in May 2023 and are expected to continue through May 2024.

**Total Installations:** As of 10/25/23: 11,875 total installs

**Where:** Installations will occur throughout NYSEG's Brewster Division. This includes portions of Dutchess, Putnam and Westchester counties.

# Installation: What customers can expect



## Mail notification

Customers receive a postcard in the weeks before installation.



## Phone notification

Customers receive an automated phone 1-2 days before installation.



## Installation field visit

A technician visits the customer to install smart meter.



## Successful installation

A doorhanger is left to let the customer know the installation is complete.



## That's it!



## Postcard



We'll knock when we arrive, but you don't need to be present for your upgrade unless your meter is inside or difficult to access. For your safety, all Grid One vehicles are marked with our logos for easy identification, and all Grid One employees will have photo identification verifying they are an authorized contractor for NYSEG. Learn more about smart meters at [nyseg.com/installation](https://nyseg.com/installation)

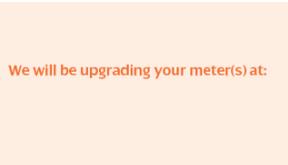


## Door hangers



**NYSEG**  
An AVANGRID Company  
P.O. Box 5240  
Binghamton, NY 13902-5240

Get ready for a fast, easy installation. In the coming weeks, our authorized contractor partner, Grid One Solutions, will be installing smart meters in your neighborhood. The installation process will take just minutes, and your power may be briefly interrupted.



If you are a residential customer and would prefer to opt out of our new standard smart meter for a monthly fee, please contact us at 866.531.6313.

Presorted  
First-Class Mail  
US Postage  
PAID  
Belmar, NJ  
Permit No. 435

### We successfully upgraded your meter.

Now that your **smart meter** has been installed, you are one step closer to:

- More control over your monthly bills with access to your energy use down to the hour
- Personalized savings tips and tools
- Automated power outage detection

You may see us in your neighborhood as we continue reading your meter for the next few months until our regionwide upgrade is complete.

[Learn more at nyseg.com/smartmeters](https://nyseg.com/smartmeters)

If you suspect a natural gas leak, get up, get out and get away! Then call us immediately at **800.572.1121** or **911** from a safe location.

If you have any questions about your meter upgrade, you can reach our team at **866.531.6313**, Monday – Friday from 7 a.m. – 8 p.m. and Saturday from 8 a.m. – 4:30 p.m.

NGAH001 | Rev 06/2023

### We weren't able to complete your smart meter installation.

We were able to successfully upgrade your:

Electric meter     Natural gas meter

We were not able to upgrade your:

Electric meter     Natural gas meter

We couldn't finish installation because:

We could not access your meter

Your electric service requires repair first

Other: \_\_\_\_\_

Additional comments: \_\_\_\_\_

Please call us at **866.531.6313**. We're available 7 a.m. – 8 p.m. weekdays, excluding holidays, and 8 a.m. – 4:30 p.m. Saturdays to schedule your convenient appointment.

Once your smart meter is installed, we'll continue reading your meter for the next few months until our regionwide upgrade is complete. Learn more about smart meters at [nyseg.com/installation](https://nyseg.com/installation)

If you suspect a natural gas leak, get up, get out and get away! Then call us immediately at **800.572.1121** or **911** from a safe location.

NGAH002 | Rev 06/2023



# Electric Operations

# Underground Capital Improvements



## Current Year and Planned Year\*

2021	2022	2023	2024	2025
Heritage Hills East Hill	Heritage Hills West Hill Condo Blocks 11, 13, 15, 16, and 17	Country Hill Phase 2A – Replace transformers	Country Hill Phase 2B – Replace transformers	Indian Hill-Lewisboro
Wild Oaks-Phase 1	Country Hill Phase 1 - Carmel - Trenching	Heritage Hills Condo Blocks 18 and 23	Countryside – Yorktown Phase 2	
Scotts Corners Pound Ridge	Wild Oaks – Phase 2	Countryside-Yorktown Phase 1		

*\*subject to change*

## Subdivisions with Underground Improvement Plan

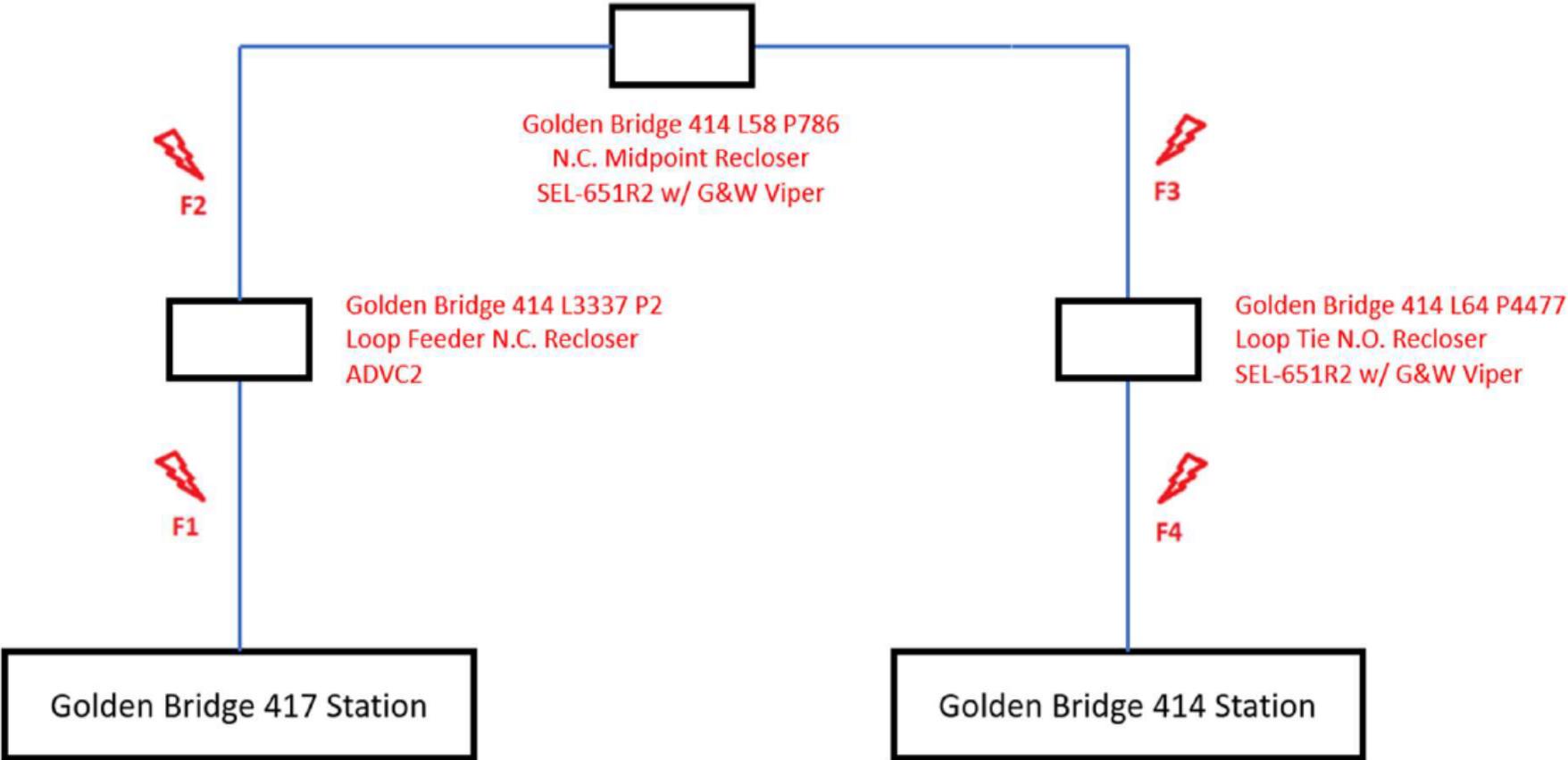
- Heritage Hills
- Wild Oaks
- Countryside
- Country Hill
- Countryside
- Indian Hill – Pound Ridge
- Indian Hill - Lewisboro
- Chelsea Cove
- Greenbriar
- Reed Farms
- The Willows
- Oakridge
- Fox Run



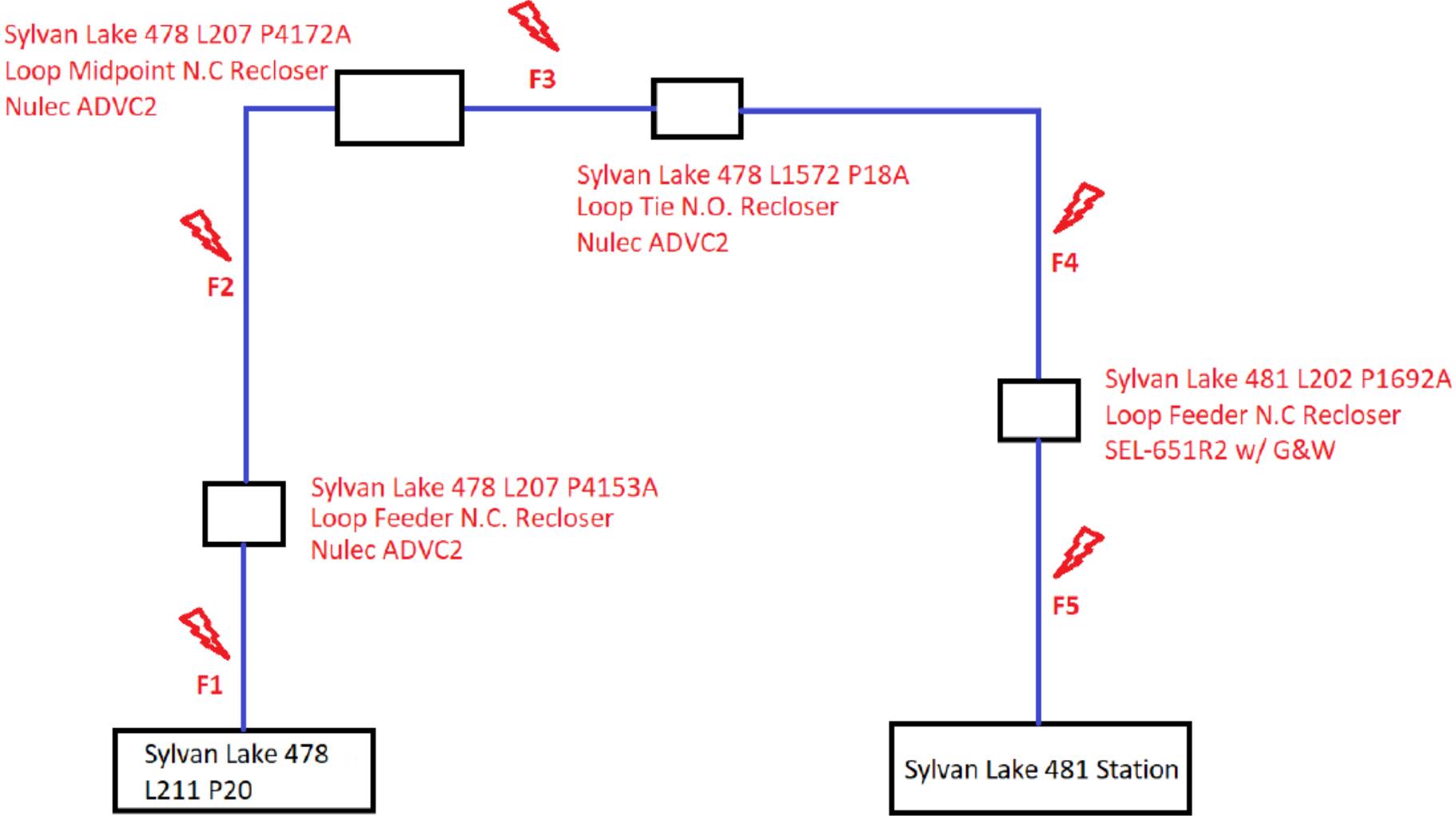
- Replaces a standard fuse with advanced technology
- Minimizes sustained outages due to temporary faults
- Installed 20 additional in 2023
- 2024 installs currently under design



# Golden Bridge Loop Scheme Schematic



# Sylvan Lake Loop Scheme Schematic



# Reliability Projects



Project	Location	What	Details	Status
1	North Salem	Nash Road Pole Replacement	<ul style="list-style-type: none"> <li>Replacing aging poles and remove trees in order to increase reliability</li> </ul>	Complete
2	North Salem/Somers	Relocate poles from off road to roadside on Rt. 22 on the Golden Bridge 421	<ul style="list-style-type: none"> <li>Relocate section of line that was off road with no bucket access to the roadside</li> <li>Provide more reliable power with less tree issues</li> <li>Allow for quicker restoration if line does go out</li> </ul>	Complete June 2023
3	Bedford Hills on Cherry Street	Bedford Hills conversion	<ul style="list-style-type: none"> <li>Convert 1.5 miles of 4.8kV to 13.2kV</li> <li>Create a new circuit to help reduce load</li> </ul>	Engineering to be completed 2 <sup>nd</sup> quarter 2024

# Reliability Projects Planned



Project	Location	What	Details	Status
4	Carmel Hamlet on Croton Falls Road	Croton Falls Conversion	<ul style="list-style-type: none"> <li>Convert a section of circuit on Croton Falls Road from 4.8kV to 13.2kV</li> <li>Create a tie point Croton Falls and Union Valley Substations</li> </ul>	<p>Engineering to be completed in 2023</p> <p>Construction in 2024</p>
5	Regan Mills & Berkshire Road Dover	Ten Mile 444 Conversion	<ul style="list-style-type: none"> <li>Convert 1.5 miles of 4.8kV to 13.2kV to increase reliability and reduce load on the circuit</li> </ul>	<p>Engineering to be completed in 2023</p>

# Capital Five Year Plan



Project Title	Description	Timing
Line 807 115kV Conversion Project	Convert the existing Carmel SS - Wood Street SS - Katonah SS Line #807 from 46kV to 115kV operation. This line was already constructed to 115kV standards; therefore, the project is primarily substation modifications. A new 115kV line terminal and two new 115kV breakers were added at Carmel Substation, two new 115kV line terminals were added at Wood Street Substation, and a new 115kV line terminal and three new 115kV breakers were added at Katonah Substation.	Completed
North Salem Golf Course 46kV Line 812/813 Rebuild	Replace 20 transmission structures that are located at the North Salem Golf Course in the Town of North Salem. The structures were at the end of their life cycle and needed to be replaced in kind.	Completed
L814 46kV Transmission Circuit Rebuild Project	Total rebuild of the Single Pole Double Circuit (SPDC) arrangement, 2.39miles in length that encompasses new poles and framing materials within the existing Line 814 Right-of-Way (ROW) between the Cantitoe Tap and Cantitoe Substation and located in the Town of Bedford.	Completed Sept 2023

# Capital Five Year Plan



Project Title	Description	Timing
Wood St SS 345/115kV Transformer addition	During summer peak load periods, there would be up to 200 MW of load and 35,000 customers at risk for potential load shed. Based on the current Brewster Division summer peak load growth rate of 2.04% per year, it is expected that this area would be exposed to this potential problem for up to 5,100 hours during the 2012 summer peak load period. The exposure is expected to increase by approximately 200 hours per year for each subsequent summer peak load period.	Projected Completion 2023
Dingle Ridge – 2 <sup>nd</sup> Bank and 13.2kV Conversion	Dingle Ridge – Upgrade the current 5MVA bank substation to a new Greenfield substation with 2 – transformer banks. Convert 9.6 miles of 4.8KV circuits 277 and 278 to 13.2kV.	Substation construction to be completed 2024. Distribution circuit work to start in 2024 and completed 2025
North Brewster Reinforcement	At Amenia Substation, the project will install 1 – 46/13.2kV, transformer & accompanying equipment and convert 10 miles of the existing 4.8 kV circuits 153 and 154 to 13.2 kV. At Dover Plains Substation, the project installed 1 – 46kV capacitor banks and accompanying equipment. At Pawling Substation, the project installed 2 – 115kV capacitor banks and accompanying equipment.	Still on going
Line 805 Pawling to Amenia Line Rebuild	This 21-mile long 46kV transmission line runs from Pawling to Amenia, with several taps and substations in between. Dozens of structures have shown deficiencies in the past and will be replaced over the next 3 years with some needing to be replaced next year.	TBD, still being fully vetted by engineering

# Substation Distribution Maintenance Work



## Substation Automation

We are performing upgrades in the automation system of the following substations. These upgrades will provide more visibility of the stations to the SCADA system. The following substation upgrades have been completed.

- a. Kent Cliffs - **Complete**
- b. Putnam Lake - **Complete**
- c. Cantitoe - **Complete**
- d. Amawalk – **Complete**

In addition to the above stations, upgrades of the protection and control system will be performed in the incoming years.

- a. Sylvan Lake (2021) - **In progress**
- b. Croton Falls (2021) - **In progress**
- c. Union Valley (2022)
- d. Goldens Bridge (2023)
- e. Bedford Hill (2022)

## Breaker Replacement

The followings breakers in the table to the right are scheduled to be replaced in the Brewster division.

## Amenia Substation Rebuild

1. Install a new substation transformer
2. Low-side medium voltage GIS
3. Low-side capacitor bank and accompanying equipment
4. Convert 10 miles of 4.8kV circuits 153 & 154 to 13.2kV

• **NOTE: All Substation Distribution Work on-track to be completed.**

Substation Name	Circuit Breaker	Substation Name	Circuit Breaker
Carmel	CARMEL-99202 – Complete	Cantitoe	CANTITOE-28242 – Complete
Croton Falls	CROTON FALLS-2B-52 – Complete	Cantitoe	CANTITOE-28342 – Complete
Croton Falls	CROTON FALLS-44652 – With engineering for re-evaluation.	Union Valley	UNION VALLEY-43112 – (2024)
Croton Falls	CROTON FALLS-51452 – Complete	Union Valley	UNION VALLEY-43212 – (2024)
Croton Falls	CROTON FALLS-51552 – Complete	Union Valley	UNION VALLEY-43312 – (2024)
Croton Falls	CROTON FALLS-51652 – Complete	Bedford Hills	BEDFORD HILLS-22532 – (2024)
Croton Falls	CROTON FALLS-80252 – Complete	Bedford Hills	BEDFORD HILLS-22732 – (2024)
Croton Falls	CROTON FALLS-80352 – Complete	Bedford Hills	BEDFORD HILLS-46232 – (2024)
Croton Falls	CROTON FALLS-81052 – Complete	Bedford Hills	BEDFORD HILLS-46332 – (2024)
Croton Falls	CROTON FALLS-81252 – Complete	Bedford Hills	BEDFORD HILLS-80632 – (2024)
Croton Falls	CROTON FALLS-81352 – Complete	Bedford Hills	BEDFORD HILLS-80732 – (2024)
Croton Falls	CROTON FALLS-T5-52 – Complete		
Croton Falls	CROTON FALLS-T6-52 - With engineering for re-evaluation.		
Golden Bridge	GOLDEN BRIDGE-1B-42 – Complete		
Golden Bridge	GOLDEN BRIDGE-2B-42 – Complete		
Golden Bridge	GOLDEN BRIDGE-41642 – Complete		
Golden Bridge	GOLDEN BRIDGE-41742 – Complete		
Golden Bridge	GOLDEN BRIDGE-41842 – Complete		
Golden Bridge	GOLDEN BRIDGE-41942 – Complete		
Golden Bridge	GOLDEN BRIDGE-42042 – Complete		
Golden Bridge	GOLDEN BRIDGE-42142 – Complete		
Golden Bridge	GOLDEN BRIDGE-T2-42		
Kent Cliffs	KENT CLIFFS-29182 – Complete		
Kent Cliffs	KENT CLIFFS-29282 – Complete		
Sylvan Lake	SYLVAN LAKE-47812 – Complete		
Sylvan Lake	SYLVAN LAKE-48012 – Complete		
Sylvan Lake	SYLVAN LAKE-48112 – Complete		

# Transmission Substation Maintenance Work



- Pawling – 115 kV Capacitor Bank Installation – **Complete**
- Dover – 46 kV Capacitor Bank Installation – **Complete**
- Croton Falls – Oil Breaker Replacement of all 46 kV and one 115 kV - **7 of 8 Completed**
- Kent Cliffs – Two switches replaced with new 46 kV breakers – **Complete**
- Carmel – 115 kV Oil Breaker Replacement - **Complete**
- Carmel – Finish the Transmission Line 807 Project – Upgrade from 46 kV to 115 kV – **Complete**
- Tilly Foster – New Breakers Installation for MTA – **Spare breaker is installed, original breaker is being rewound.**



# 2023 Resiliency Projects: Overall Construction Summary



Circuit	Town	% Complete/ Completion Date	Work Overview
Crafts 424	Carmel, Kent	100% / July 2023	7.9 miles of circuit upgrade including a new line to create a new tie with West Patterson 475 to the north along Gypsy Trail Rd. 1 new SCADA switch. 1 new SCADA Recloser. The majority of construction was completed in 2022 with the last portions constructed early in 2023. The final Switch installation on Gypsy Trail Rd. was completed in July.

# 2023 Automation Projects: Overall Construction Summary



Town	Circuit	% Complete	Work Overview
Yorktown	AMAWALK 449	0%	3 Devices to be installed
Yorktown, Somers	AMAWALK 451	0%	4 Devices to be installed
Yorktown, Somers	AMAWALK 454	0%	2 Devices to be installed
Southeast, Patterson	TILLY FOSTER 437	0%	4 Devices to be installed
Southeast, Village of Brewster	TILLY FOSTER 438	100%	6 Devices to be installed
Southeast, Carmel, Kent	TILLY FOSTER 439*	0%	6 Devices to be installed
Southeast, Village of Brewster, Carmel	Tilly Foster 441*	0%	5 Devices to be installed
Southeast, Carmel	TILLY FOSTER 442*	0%	5 Devices to be installed
Carmel, Somers, Yorktown	Union Valley 432	20%	6 Devices to be installed
Carmel	Union Valley 433	100%	10 Devices to be installed

\*Construction temporarily on hold. Coordination review is pending

# Resiliency Projects: 2024 Plan



Circuit	Town	Tentative Start	Work Overview
Adams Corners 411*	Putnam Valley	Jun-23	3.05 miles of wire upgrade. 2 new SCADA switches. 1 new SCADA Recloser
Adams Corners 412*	Putnam Valley	Jan-23	2.14 miles of wire upgrade. 1 new SCADA switch. 1 new SCADA Recloser. 4 new Tripsavers
Adams Corners 413*	Putnam Valley	Apr-23	0.81 miles of wire upgrade. 0.9 miles of new circuit. 1 new SCADA switch. 2 new SCADA Reclosers. 2 new Tripsavers
West Patterson 475*	Patterson, Kent	2025	4.4 miles of wire upgrade. 2.6 of voltage conversion to create new tie. 3 new SCADA switches. 2 new Reclosers.
Cantitoe 497**	Bedford, Pound Ridge	2025	5.95 miles of wire upgrade. 7 new SCADA switches. 2 new Reclosers. 6 new Tripsavers

\* Engineering complete; ready for construction

\*\* Engineering ongoing

# Automation Projects: Tentative Future Plan



Circuit	Town	Tentative Start	Work Overview
BEDFORD HILLS 225	Bedford	2024	1 Device to be installed
BEDFORD HILLS 462	Bedford	2024	1 Device to be installed
BEDFORD HILLS 463	Bedford	2024	2 Devices to be installed
CANTITOE 282	Bedford	2024	1 Device to be installed
CANTITOE 283	Bedford	2024	1 Device to be installed
CANTITOE 497	Bedford, Pound Ridge	2024	1 Device to be installed
CARMEL 501	Carmel	2024	4 Devices to be installed
CARMEL 502	Carmel	2024	2 Devices to be installed
CROSS RIVER 468*	Bedford, Lewisboro	2024	3 Devices to be installed
CROSS RIVER 470*	Lewisboro	2024	1 Device to be installed
GOLDENS BRIDGE 418	Somers	2024	2 Devices to be installed
PAWLING 166	Pawling	2024	1 Device to be installed
PAWLING 508	Pawling	2024	2 Devices to be installed
PAWLING 509	Pawling	2024	1 Device to be installed
POUND RIDGE 458*	Pound Ridge	2024	1 Device to be installed
PUTNAM LAKE 484	Southeast, Patterson	2024	2 Devices to be installed
PUTNAM LAKE 485	Southeast, Patterson	2024	1 Device to be installed
SYLVAN LAKE 480	Beekman, Pawling	2024	2 Devices to be installed
SYLVAN LAKE 481	Beekman	2024	5 Devices to be installed
WEST PATTERSON 474	Patterson, Pawling	2024	3 Devices to be installed

\* Engineering ongoing



# Vegetation Update

# Brewster Trim Cycle- Distribution Schedule



2023	2024
Adams Corners 413	Amenia 153
Cantitoe 282, 497	Bedford Hills 462
Crafts 424	Cross River 469, 470
Golden Bridge 420	Putnam Lake 486
Kent 176, 526	Sylvan Lake 478, 480, 481
PAWLING 509	Tilly Foster 439, 531, 532
Pound Ridge 456, 457	West Patterson 474, 475
PUTNAM LAKE 485, 486	
UNION VALLEY 431, 432, 433	

*\*subject to change according to vendor availability*

# Brewster Treatment Cycle- Substation & Transmission

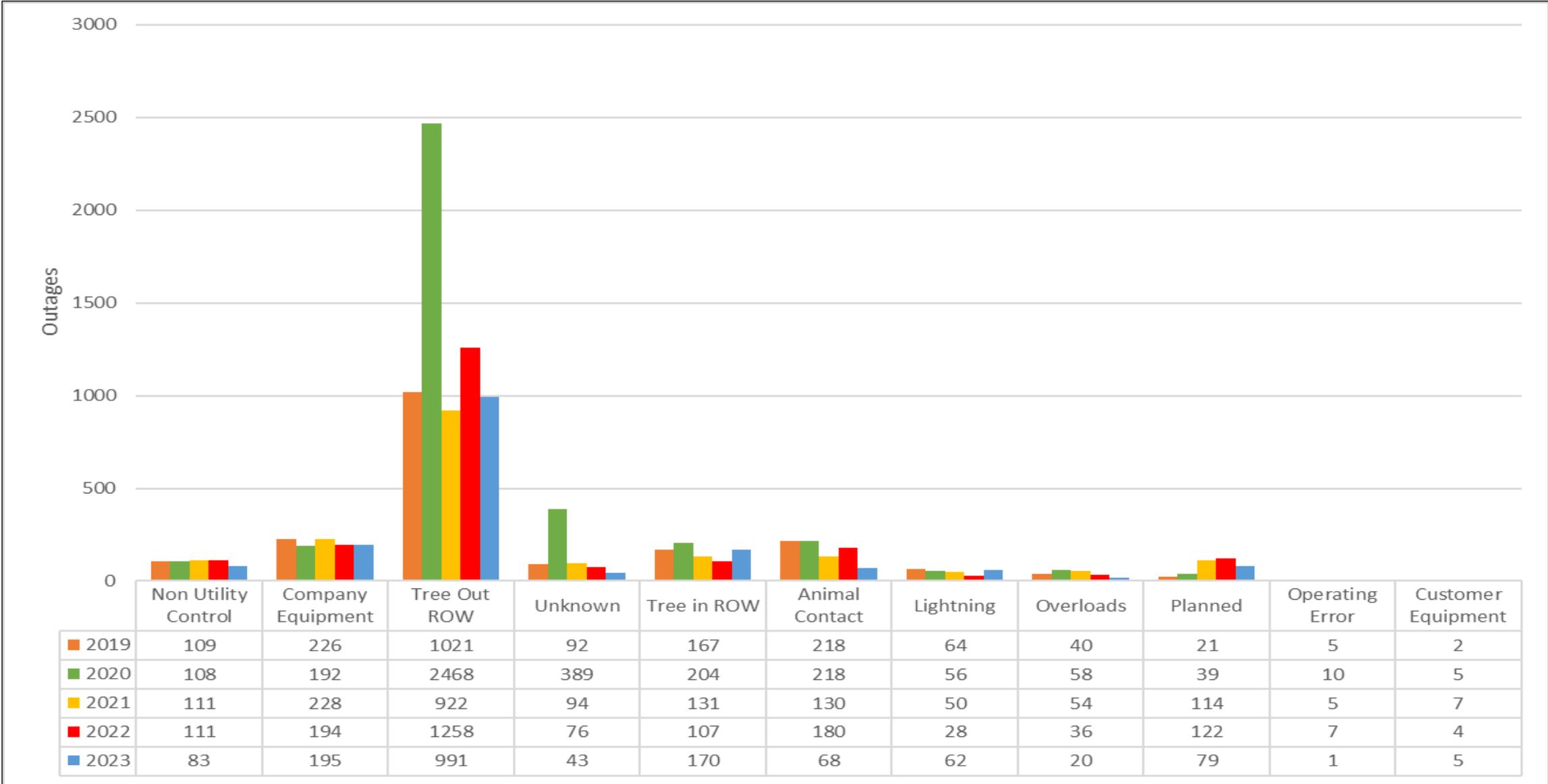


## Current Year and Planned Year\*

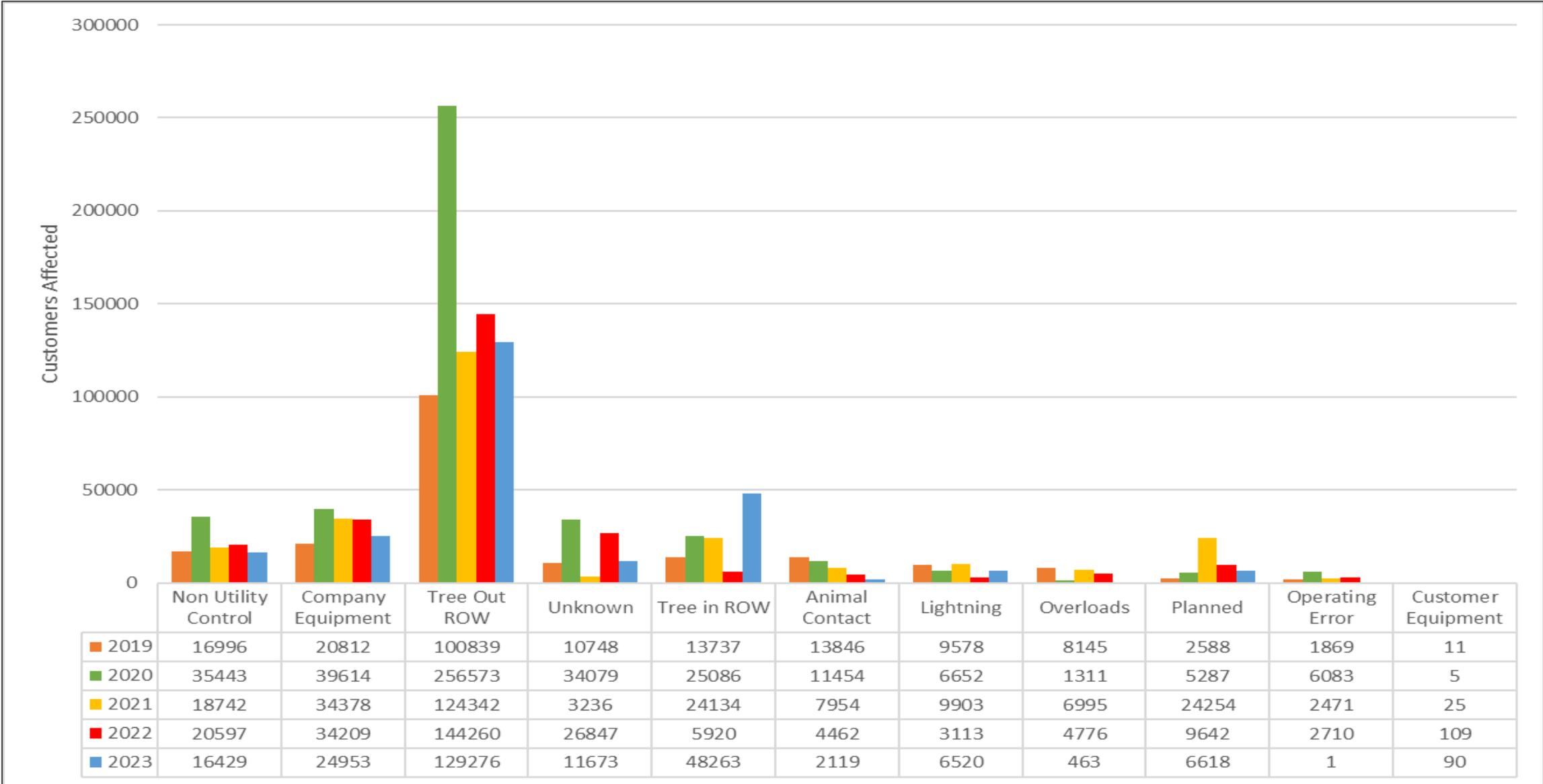
Line	Sub From	Sub To	kV	Year
802	TEAKETTLE SPR TAP	TEAKETTLE SPOUT	46	2023
803	CROTON FALLS (STR 1980)	TILLY FOSTER (STR 1944)	46	2023
803	TILLY FOSTER (STR 1937)	TILLY FOSTER	46	2023
803	KENT	PAWLING (STR 206)	46	2023
814	CROSS RIVER	BEDFORD HILLS (STR 50)	46	2023
991 802	CROTON FALLS	CARMEL	115	2023
992 807 810	CARMEL	WOOD STREET	115	2023
996 807	WOOD STREET	AMAWALK	115	2023
994	CROTON FALLS	PAWLING	115	2024

*\*subject to change as we are currently evaluating the cycle length for efficacy*

# Brewster Division Outage by Cause



# Customers Affected by Cause - Brewster



## Energized for Good – Our way of giving back to our communities



- We pride ourselves on volunteering and donating to local non-profit organizations
- Our company volunteer hour's goal:
  - 2023 – 14,000
  - 2024 – 21,000
  - 2025 – 35,000
- For every hour, an employee volunteers with an organization we donate \$15, to a max of \$1,500



# Brewster Division Volunteering!



# Non-Profit Organizations We Give To





# Questions ?

**Thank you!**