NYSEG
An Avangrid company

Van Etten 570 Resiliency Upgrades & Tie Line

Project Overview

As part of our commitment to provide safe, reliable service to all our customers, New York State Electric and Gas (NYSEG), in conjunction with our parent company – AVANGRID, is updating the delivery system in our service areas. These upgrades comply with new electric distribution reliability requirements.

While making investments to improve system performance and update system assets to improve system resiliency, we are working closely with our neighbors to ensure that all improvements are performed with minimal disruption to the environment and the communities we serve.

Project Need

The Van Etten 570 circuit serving the Van Etten Village/Township and the Ridge Rd 501 circuit serving the Erin Township are currently radially fed, meaning that their only source of power, is the substation/source that they are fed from.

Additionally, the circuit serving the Village and Township of Van Etten has only one remotely controllable protection device downstream from the substation/source providing limited capabilities to sectionalize the circuit and isolate issues on the line.

Finally, there are a significant number of aging assets along Langford Creek Road that need to be updated and hardened against equipment failure and tree related outages.

Project Information Line: 833-551-4100
Refer to: Van Etten Resiliency Project
Email: outreach@nyseg.com
Website: nyseg.com > Reliable Service

Project Purpose and Impacted Areas

The project intends to install an approximately 8.4 mile 34.5kv tie line/line rebuild between the Van Etten 570 circuit serving the Van Etten Village/Township and the Ridge Rd 501 Circuit feeding the Erin Township. The tie line will start near the Vergason Technology, Inc building traveling along NY-224, turn west on NY-223 (Swartwood Hill Rd), across Austin Hill Rd., back to NY-223 (Swartwood Hill Rd), and end near the U.S. Post Office in Erin, NY.

In support of the new tie line and voltage upgrade, several step transformers, service transformers, regulation devices, and a remotely capable SCADA device will be installed to allow these two circuits to act as the back up power feed for each other if either circuit loses power upstream.

The construction of the tie line and the voltage conversion work involved will require coordinated customer outages as we swap the customers over to the new feed.

Additionally, two devices will be added in the village of Van Etten along Upper Front St. and Hixon St. to provide remote control capability for the Van Etten 570 circuit and sectionalizing capability.

Finally, an approximately 2.1 mile line rebuild will occur along Langford Creek Rd between Briggs Hill Rd and M. Elston Rd. to upgrade pole assets and utilize covered tree and spacer wire to protect and reduce outages resulting from tree related incidents..

Upgrade Project Scope Includes

- 8.4 Mile 3Ph 34.5kv Tie Line & Line Rebuild between the Ridge Rd 501 and Van Etten 570 Circuits
  - (2) 3Ph Regulator Bank Install/Upgrades
  - (1) N.O. SCADA (Remotely Operable) Tie Recloser
  - Roughly (59) Service Transformer Upgrades
  - (7) Step Transformer Installations
- 2.1 Mile 1Ph 4.8kv Line Rebuild with Covered Tree & Spacer Wire.
- (2) New N.C. SCADA (Remotely Operable) Devices.

Project Location

Municipalities:	Van Etten Township, Erin Township
Counties Impacted:	Chemung
Permitting Required:	NYS Highway Permits (NY-224 & NY-223)

Estimated Timetable *(subject to change)*

Project Start:	Q1 2024
Project Completion:	Q4 2024

Regional Benefits

- Provides back up electrical feeds to each circuit allowing another source to temporarily restore power to sections of either circuit in the case of an emergency.
- The new Tie Line will be relocated to roadside in most locations allowing quicker repair and restoration times by crews.
- New SCADA (Remotely Operable) devices will provide sectionalizing points to allow crews more opportunities to isolate damaged sections of line, so power can potentially be restored to the undamaged sections. Some of the devices will have Reclose capability allowing the line to close back in momentarily to see if the fault cleared and if so, restore power without crew intervention/wait times.
- New heavier class pole structures and new conductor (in some cases covered conductor) will provide the two-fold benefit of hardening the system to protect from damage and renewing old assets to minimize outages related to dilapidation of the system.