



Davis 531 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

In review of data from past years the Davis 531 circuit has seen a significant amount of tree and equipment related outages that have helped identify the circuit as a candidate for investment and upgrade.

Additionally, there are opportunities to improve circuit performance by providing redundant power feeds to redirect power flow and by installing additional switching/protection devices to isolate circuit damage.

Finally, the nearby Orchard Park Substation currently has a radial transmission source, meaning, if there are issues with that transmission source, the power to much of the Orchard Park Village and Township is lost, with no relief, until the issue is repaired by line crews.

Project Information Line: 833-551-4100
Refer to: Davis 531 Resiliency Upgrades & Tie Line
Email: outreach@nyseg.com
Website: nyseg.com > Reliable Service

Project Purpose and Impacted Areas

The project intends to rebuild/convert to a higher voltage along Ellicott Rd. between Philson Dr. and Dennis Rd. and build a new 3ph tie line along Philson Dr. with a remotely operable switching device to provide an internal circuit loop that will allow an alternate path for the mainline power delivery.

Additionally, a remotely operable protection device will be installed on Powers Rd (west of Chestnut Ridge Rd.) that will isolate damage/issues with the line downstream of that device without affecting the rest of the circuit.

Finally, the project intends to rebuild/build a tie line between the Davis 531 and the Orchard Park 526/Orchard Park substation. This tie line will serve the critical purpose of providing an alternate source of power to the Orchard Park Substation and vice versa a backup power feed from the Orchard Park 526 to the Davis 531 circuit in the event of an emergency, while the normal power source is being restored.

The tie line rebuild will travel along Armor Duells Rd, California Rd, Duerr Rd., and terminate on Thorne Ave. New remotely capable switching/protection devices and regulation equipment upgrades will occur to support this tie line.

Project Location

Municipalities: Orchard Park Township/
Village, Aurora Township

Counties Impacted: Erie

Permitting Required: NYS Highway Permits NY-240, County Permits

Estimated Timetable *(subject to change)*

Project Start: Q1 2024

Project Completion: Q3 2025

Upgrade Project Scope Includes

- 1.58 Mile 3Ph 34.5kV Tie Line & Rebuild between the Davis 531 Circuit & the Orchard Park Substation
 - (2) 3Ph Regulator Bank Install/Upgrades
 - (1) N.O. SCADA (Remotely Operable) Tie Recloser
 - (2) N.C. SCADA (Remotely Operable) Recloser Devices
 - Approx (8) Service Transformer Upgrades
 - (2) Step Transformer Installations
- 0.85 Mile 3Ph 34.5kV Internal Circuit Loop & Rebuild on the Davis 531
 - (1) N.O. SCADA (Remotely Operable) Tie Recloser
 - Approx (11) Service Transformer Upgrades
 - (1) Step Transformer Installation
- (1) New N.C. SCADA (Remotely Operable) Device (not related to above) to provide protection and sectionalizing capabilities.

Regional Benefits

- Provides redundant mainline feeders within the Davis 531 circuit to allow alternate routes for power delivery around damaged areas on the line.
- Provides needed back-up power source to the Orchard Park substation to allow for temporary power restoration in emergency situations, also conversely provides option for Orchard Park to restore power to sections of the Davis 531 in emergency.
- 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 issue cleared and if so, restore power without crew intervention/wait times.

