

Oneonta South Area Improvements Project Phase I: Fraser Substation Improvements

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 electric transmission system in our service areas. These upgrades comply with new federal electric transmission reliability requirements. While making investments to meet the community's growing energy demands, 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.

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Project Purpose and Need

In 2010 the Federal Energy Regulatory Commission (FERC) established a "Brightline" threshold that redefined Bulk Electric System (BES) transmission elements as those operating at 100 kilovolt (kV) and above. In response, the North American Electric Reliability Corporation (NERC) updated its reliability standards and issued a "Brightline Order".

To comply with more stringent reliability standards issued at the federal level, NYSEG is planning an expansion of the existing Fraser Substation; changes at the existing Delhi Substation; and reconfiguring, establishment and/or rebuild of supporting transmission lines. This upgrade will enhance the integrity of the entire transmission system in your local area.



Figure 1: Location of Fraser Substation Expansion (orange) adjacent to NYSEG's existing Fraser Substation facilities.

Oneonta South Solution

- **Phase 1:** Fraser Substation Improvements
- **Phase 2:** 115kV Transmission Line Reroutes
- **Phase 3:** New 46kV Transmission Line 824 Segment
- **Phase 4:** Delhi Substation Improvements
- **Phase 5:** New 46kV Transmission Line 841
- **Phase 6:** 115kV Transmission Line Segment 916 Rebuild

Phase 1: Fraser Substation Improvements Project Scope

- An expansion of the existing NYSEG substation with an additional 115kV substation yard.
- Upgrades to the existing NYSEG 345kV substation yard to meet future demands and reliability requirements of the region.

Anticipated Regulatory Permits and Resource Reviews

- **Federal:**
 - Federal Aviation Administration (FAA): Aviation Hazard Review
 - U.S. Fish and Wildlife Service (USFWS): Endangered Species Impact Review

Project Location

Municipalities: Towns of Delhi and Hamden

County: Delaware

Permitting required: Federal, State and Municipal

Estimated Timetable *(subject to change)*

Construction Start: Q4 2021

In Service Date: Q1 2026

- **New York State:**
 - New York State Environmental Quality Review Act (SEQR): Coordinated Review; Lead Agency Town of Delhi
 - New York State Department of Environmental Conservation (NYSDEC): State Pollutant Discharge Elimination System (SPDES) Permit for Stormwater Discharges from Construction Activities
 - New York State Office of Parks Recreation and Historic Preservation (OPRHP) State Historic Preservation Office (SHPO): Cultural Resource Impact Review
 - New York Natural Heritage Program (NYNHP): Rare Species and Significant Natural Communities Review
- **Local and Regional:**
 - Town of Delhi: Zoning Review, Building Permit, and Site Plan Approval
 - Delaware County: Municipal Law 239 Review
 - New York City Department of Environmental Protection (NYCDEP): Stormwater Pollution Prevention Plan (SWPPP) Approval

Regional Benefits

- The project contributions will improve the reliability and resiliency of the transmission system in the Fraser/Delhi Region, ensuring that safe and reliable distribution of power is maintained.
- The energy reliability improvements generated by the project can support expanded economic development.