

## Oneonta South Area Improvements Project Overview

### 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.

**Project Information Line: 833.551.4300**

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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.

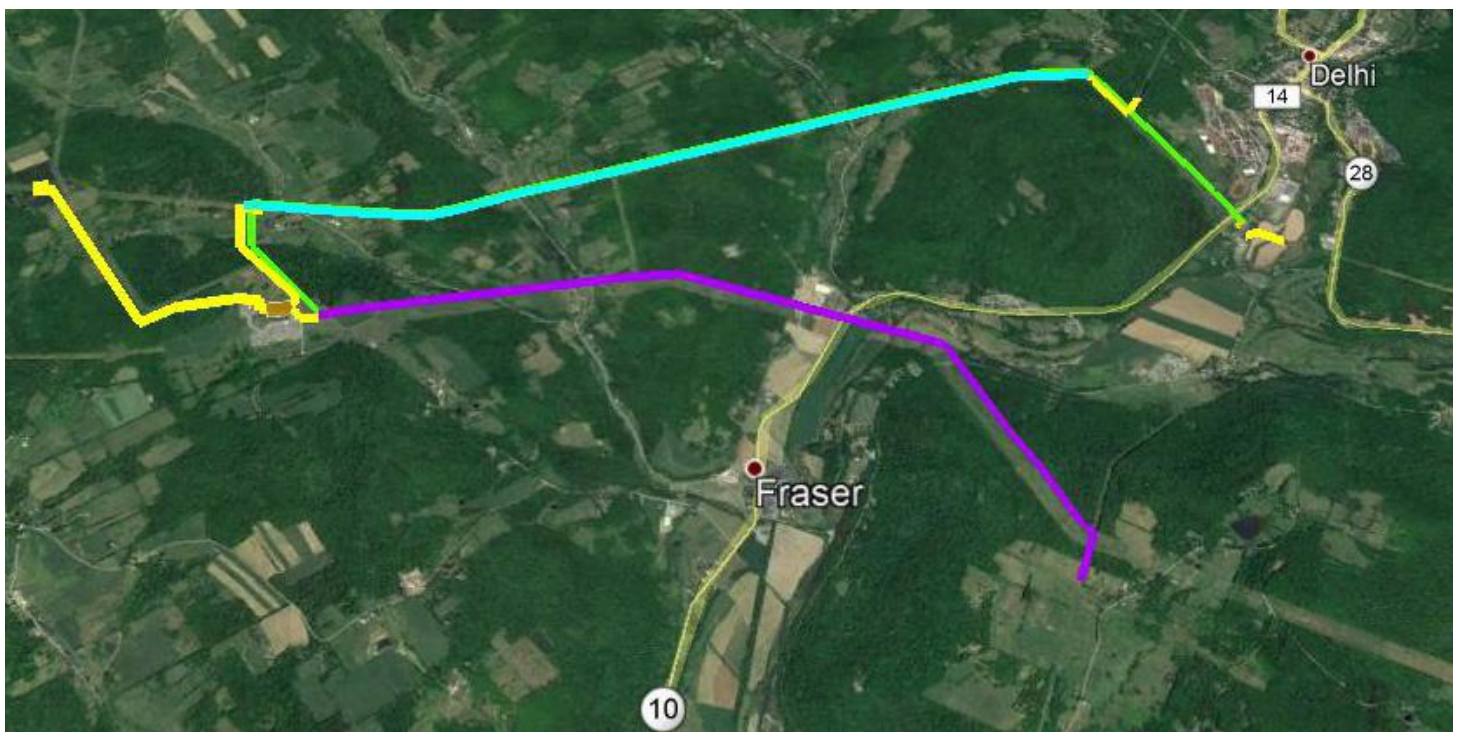


Figure 1: Approximate location of all project activities to be performed according to schedule.

## Project Scope

### • Phase 1 - Fraser Substation Improvements

Fraser Substation is an existing 345/115kV substation located on Hamden Hill Road near Fraser, New York. A new greenfield-build 115kV yard substation will be constructed north of the existing location supplementing the existing Fraser Substation. Several 115kV circuits will be relocated from NYSEG's Delhi Substation to the new 115kV yard at Fraser Substation as Project Phase 2. Additional reliability modifications and upgrades will be completed within the existing 345kV yard area.

### • Phase 2 - 115kV Transmission Line Reroutes

The rerouting of five 115kV transmission lines cumulative totaling new reroute line construction of ~4.5 miles in length is necessary to provide connection with the proposed Fraser Substation 115kV yard. The lines will run parallel to an existing right-of-way (ROW) corridor containing existing New York Power Authority overhead transmission lines for portions of their proposed alignments.

### • Phase 3 - New 46kV Transmission Line Segment 824

A new segment of one 46kV transmission line with ~3.5 miles in length is necessary between Fraser Substation and existing transmission infrastructure near the Delhi Co-op switch station. This new line segment will run parallel to an existing ROW corridor containing NYPA and NYSEG overhead transmission lines.

### • Phase 4 - Delhi Substation Improvements

Delhi Substation is an existing 115/46/12kV substation located on Sherwood Road near Delhi, New York. A new greenfield-build 115kV yard substation will be constructed north of NYSEG's existing Fraser Substation and several 115kV circuits will be relocated from the Delhi Substation to the new 115kV yard at Fraser Substation. As a result, minor reliability modifications in addition to decommissioning of the existing 115kV yard will be completed within the existing Delhi Substation.

### • Phase 5 - New 46kV Transmission Line 841

A proposed ~5.4 miles 46kV transmission line (Line 841) establishment is necessary between the Fraser Substation and the Delhi Substation. This new line will run parallel to the existing transmission lines, and mostly inside the ROW corridor that currently contains NYPA and NYSEG overhead transmission lines.

### • Phase 6 - 115kV Transmission Line Segment 916 Rebuild

A ~4 miles segment of existing 115kV transmission line (Line 916) is necessary to be rebuilt between the existing Fraser Substation and the Delhi Substation. This Line segment will be re-established in its existing ROW and will be rebuilt and reconfigured from H-frame structures to steel monopole structures in an effort to reduce the ROW width requirements. This effort will work in parallel with Phase 5 of the Project to reduce the width of cumulative ROW required for Project Phases 5 and 6 which will be established adjacent and contiguous to one another within this common ROW.

## Project Location

Municipalities:	Towns of Delhi and Hamden
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County:	Delaware
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Permitting required:	Federal, State and Municipal
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## Estimated Timetable *(subject to change)*

Construction Start:	Q3 2021
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In Service Date:	Q1 2027
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## 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.