

NextEra Energy Transmission of New York, Inc. (NEETNY")

Case 13-T-0455: Part A Supplemental Application of NextEra Energy Transmission New York, Inc. for a Certificate of Environmental Compatibility and Public Need Pursuant to Article VII of the Public Service Law for the Marcy to Pleasant Valley Project; supersedes the 2013 application

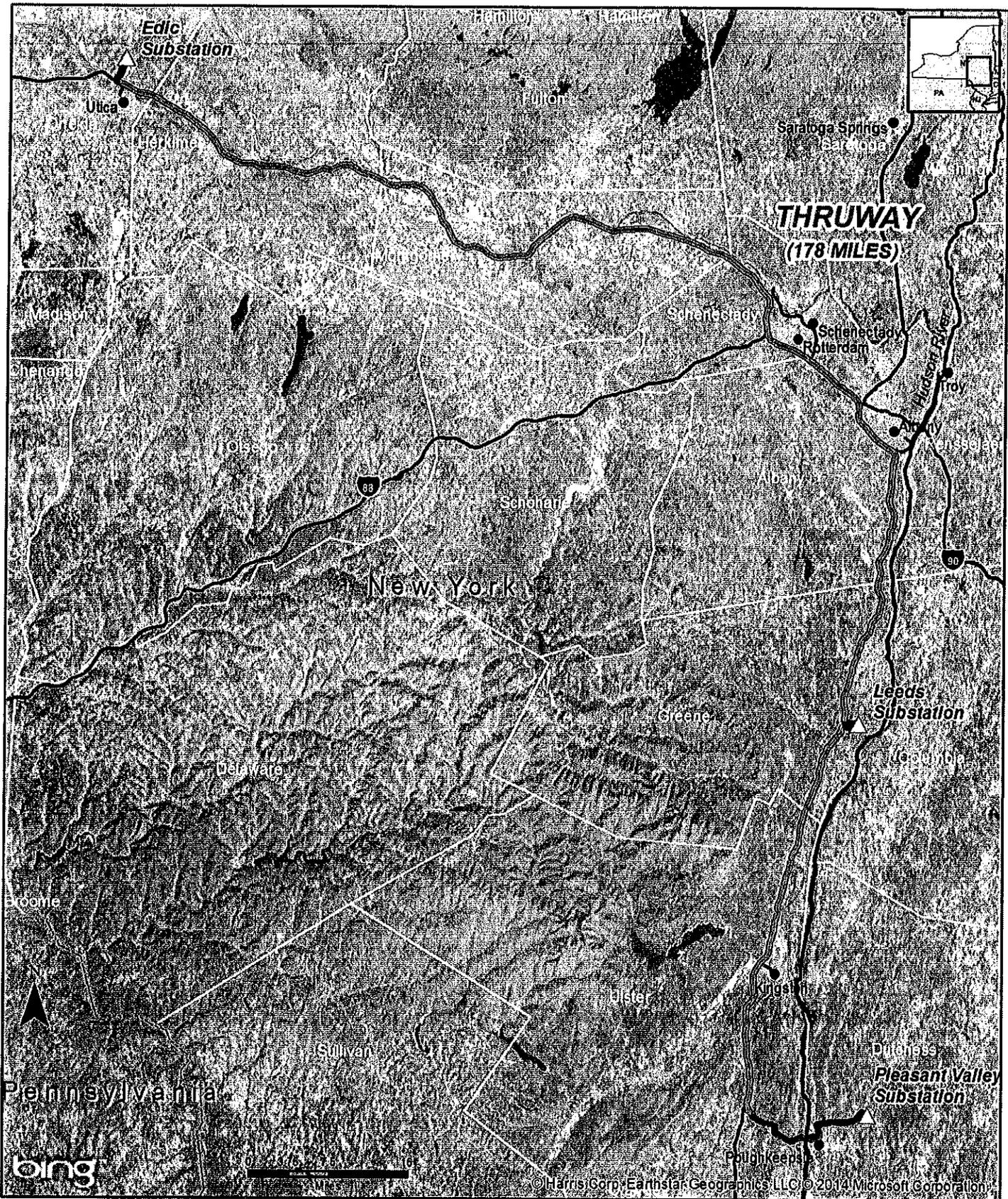
Case 13-T-0456: Part A Supplemental Application of NextEra Energy Transmission New York, Inc. for a Certificate of Environmental Compatibility and Public Need Pursuant to Article VII of the Public Service Law for the Oakdale to Fraser Project

- Parent company is NextEra Energy Inc.
- The NEETNY Supplemental application consists of two parts: (1) the Marcy/Edic to Pleasant Valley Project, which has 5 alternatives; and (2) the Oakdale to Fraser Project
- The Marcy/Edic to Pleasant Valley Project (has 5 alternative project routes) claimed to be consistent with New York's policy preference for development in existing ROW; involves municipalities not previously notified of a pending application; 4 of the 5 alternatives have been designed "to require minimal to no new ROW development because they would be constructed entirely or almost entirely within existing utility ROW or state-owned ROW"; will primarily use spun concrete monopole structures claiming smaller size, more limited footprint, and reduced visual impact as compared to traditional lattice structures). (***) To see the details on the pole heights and the portions of the routes that require new ROW, will be adjacent new ROW and/or will use existing ROW see Transmission Corridor Profile figures submitted on 1/20/15 for each alternative in Case 13-T-0455. Where new ROW is needed, it is generally 110' wide; where the ROW is widened and adjacent, it is up to 40'; where existing ROW is used, it is usually made available due to the retirement of an existing line; monopole height is typically 97' and in some areas it is 105'. See also the Route descriptions on pp. 15-32 of the 1/7/15 submission: Marcy to PV Project Information Requirements in Case 13-T-0455.)
 - Thruway Route: 178 mile AC transmission line largely paralleling the NYS thruway between the Edic Substation in Town of Marcy, Oneida County and Pleasant Valley substation. From Edic it goes 2.6 miles to the NYS Thruway and follows the Thruway ROW for 125 miles, including an aerial crossing of the Mohawk River, to Athens where it will leave the Thruway ROW and connect to the Leeds substation, then back to the Thruway ROW for 38.2 miles then leaves it and goes east through the Town of Lloyd and to Pleasant Valley; this requires a Hudson River crossing which will use HDD to avoid a new overhead crossing, or partnering with other entities to use a bridge crossing at New Paltz (the Walkway); NEETNY has offered to underground the last 5 miles to Pleasant Valley at additional cost if required by PSC
 - Cost: \$554.5 million; in service October 2019
 - Marcy Southern Route 1: 135 mile AC transmission line in two parts largely using existing utility ROW between Marcy Substation in Town of Marcy, Oneida County and Pleasant Valley, with 3 new substations: Princetown substation (15 acre site in Town of Princetown, Schenectady County); Knickerbocker switchyard; and North Churchtown switchyard; avoids a new Hudson River crossing. The first section is 56 miles from Marcy to the new Princetown Substation, including an aerial crossing of the Mohawk River in Herkimer County, to the existing Rotterdam station. The second, 62 mile section is between the new Knickerbocker switchyard, through the new Churchtown switchyard to Pleasant Valley and is the same as Knickerbocker route below.
 - Cost: \$301.3 million; in service July 2019
 - Marcy Southern Route 2: 167 mile AC transmission line in 3 parts largely using existing utility ROW between Marcy Substation in Town of Marcy, Oneida County and Pleasant

Valley with 3 new substations: Princetown substation, Town of Princetown, Schenectady County; Knickerbocker switchyard; and North Churchtown switchyard; designed to minimize new ROW. This alternative consists of the same 56 mile section from Marcy substation to Rotterdam substation as in Marcy Southern Route 1. A second section adds and rebuilds two 345 kV lines located in the same ROW between the new Princetown substation, through the New Scotland substation, to the new Knickerbocker switchyard, and includes 2 new Hudson River crossings (apparently in the same location): a new Princetown to Knickerbocker 345 kV transmission line will use HDD, and a rebuild of the New Scotland to Alps 345 kV line will utilize the existing overhead crossing. The third, 62 mile section of this alternative is between the new Knickerbocker switchyard, through the new Churchtown switchyard to Pleasant Valley, and is the same as Knickerbocker route below.

- Cost: \$418.8 million; in service July 2019
- Marcy Northern Route: 147 Mile AC transmission line in two sections requiring 3 new substations: Orchard Hill, Knickerbocker and North Churchtown. First section is 84 miles largely adjacent to existing utility ROW (so it requires development of 84 miles of new ROW along existing ROW) between Marcy Substation in Oneida and a new Orchard Hill substation on a 15 acre site near New Scotland in Albany County, including an aerial crossing of the Mohawk River/Thruway in Montgomery County. The second portion will be 62 miles of AC transmission line located within existing utility ROW between a new Knickerbocker substation in Rensselaer County and Pleasant Valley, and is the same as the Knickerbocker route below. Existing lines will link the two sections. This route is lower cost compared to Marcy Southern Route 2 and avoids a new Hudson River Crossing.
 - Cost: \$308.4 million; in service July 2019
- Knickerbocker Route: 62 mile AC transmission line entirely within existing utility ROW between new Knickerbocker switchyard on a 15 acre site in Rensselaer County and Pleasant Valley; requires 2 new substations: Knickerbocker and North Churchtown; least expensive and avoids new Hudson River crossing. It actually begins at the Greenbush Substation north of Knickerbocker and is a 115 kV line to the new Knickerbocker switchyard, and from there a new 345 kV/115kV double circuit on the same towers will run to the new North Churchtown Switchyard, on a 15 acre site just north of the Churchtown Substation in the Town of Claverack, and from there a 345 kV transmission line will continue to Pleasant Valley (typically 105' monopoles in this section).
 - Cost: \$135.2 million; in service January 2019
- "NEETNY expects the benefits of its proposed Project to far outweigh the costs, based on studies of generic transmission solutions in NYISO's 2013 CARIS."
- "The project is being proposed as part of the Energy Highway Blueprint and is necessary to relieve congestion, improve local and regional reliability, and enable new renewable and conventional generation."
- Cites the recent NYISO comments reiterating need for new and upgraded transmission facilities. Also cites reliability, flexibility and efficiency; resiliency; and need for new transmission capacity to deal with transition in the generation fleet due to emission control requirements and retirements.
- "Additional easements may also be required to facilitate construction access and for the laydown of materials and at angles where guyed structures may be proposed."

- The Oakdale to Fraser Project :
 - Uses existing, unused ROW and requires no additional ROW; little change to 2013 proposal
 - A 57-mile 345 kV, single circuit overhead AC transmission line paralleling an existing 345 kV transmission line between Oakdale substation in Broome County and Fraser Substation in Delaware County, passing through Chenango County. Will be constructed primarily on spun concrete monopoles.
 - Does not impact the UPNY/SENY interface, but furthers objectives of the Energy Highway Blueprint i.e. reliability, efficiency, congestion reduction, minimizing environmental impacts and long term economic benefits; it will increase the power import capability from the southern tier into southeastern NY while improving power delivery in constrained areas; will increase the transfer capability of the Volney East interface and remove constraint on wind generation
 - Cost: \$98.3 million; In service September 2018

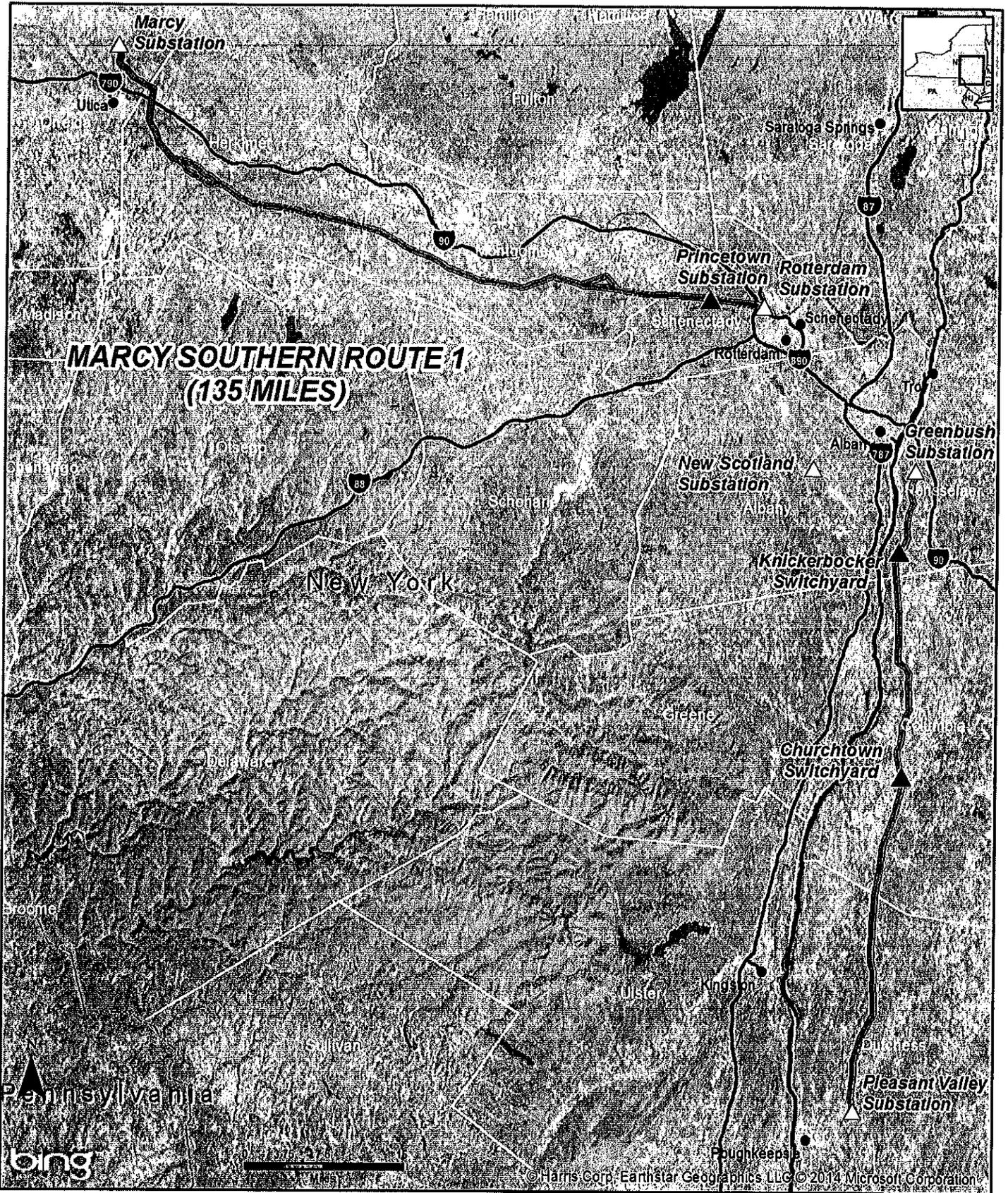


New York Energy Highway - Thruway Route, January 2015

- | | | |
|--------------------------|---------------------|----------------|
| ADJACENT OR NEW ROW | New Substation | Major Roads |
| GOVERNMENT/RAILWAY ROW | Existing Substation | County Line |
| THRUWAY ROW AND ADJACENT | City | State Boundary |
| | Rivers | |



© Harris Corp Earthstar Geographics LLC © 2014 Microsoft Corporation

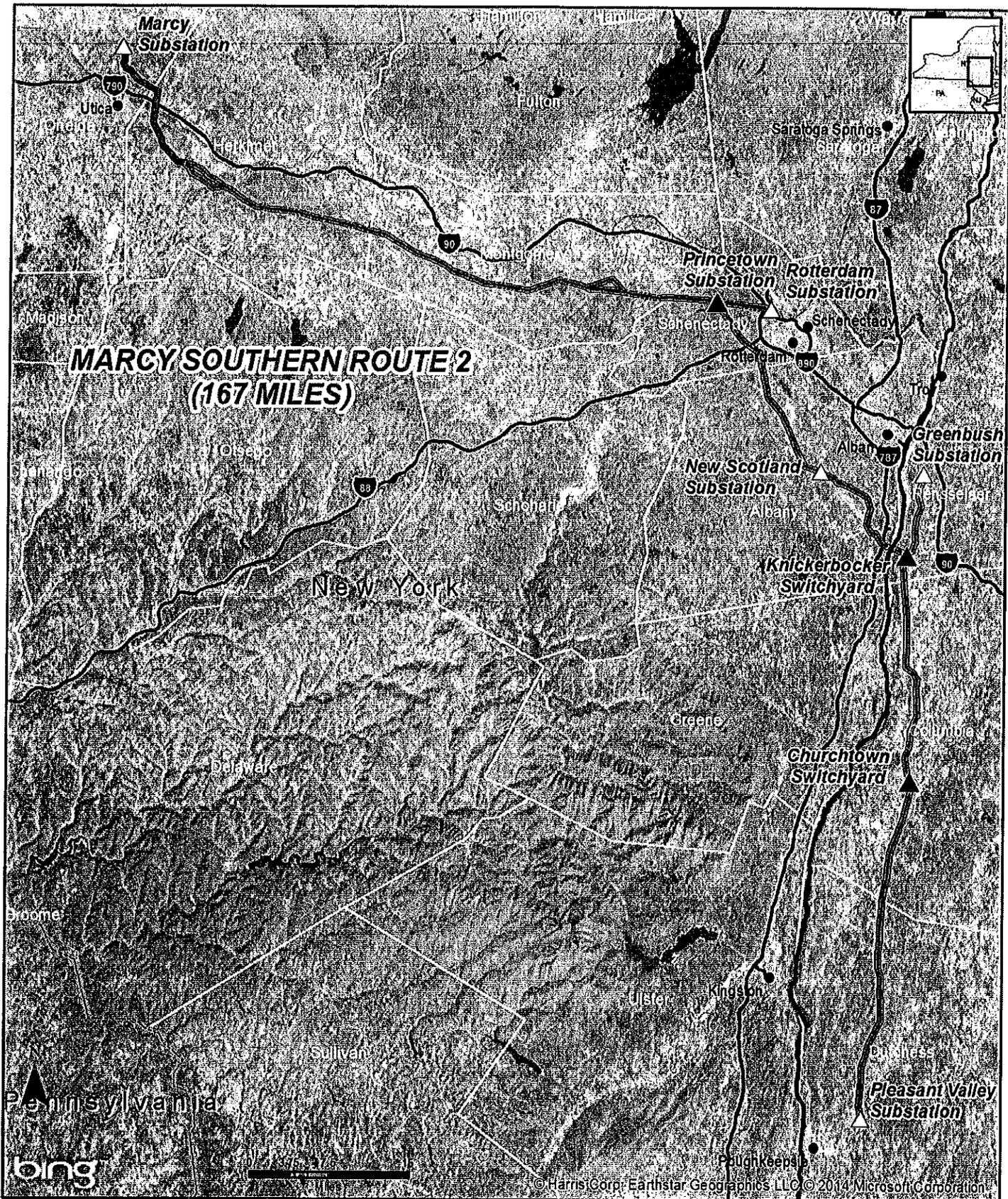


New York Energy Highway - Marcy Southern Route 1, January 2015

- | | | |
|-----------------------------|---------------------|----------------|
| JOINT USE OF FACILITIES | New Substation | Major Roads |
| REPLACE EXISTING FACILITIES | Existing Substation | State Boundary |
| VACANT UTILITY ROW | City | County Line |
| Rivers | | |



© Harris Corp., Earthstar Geographics LLC © 2014 Microsoft Corporation

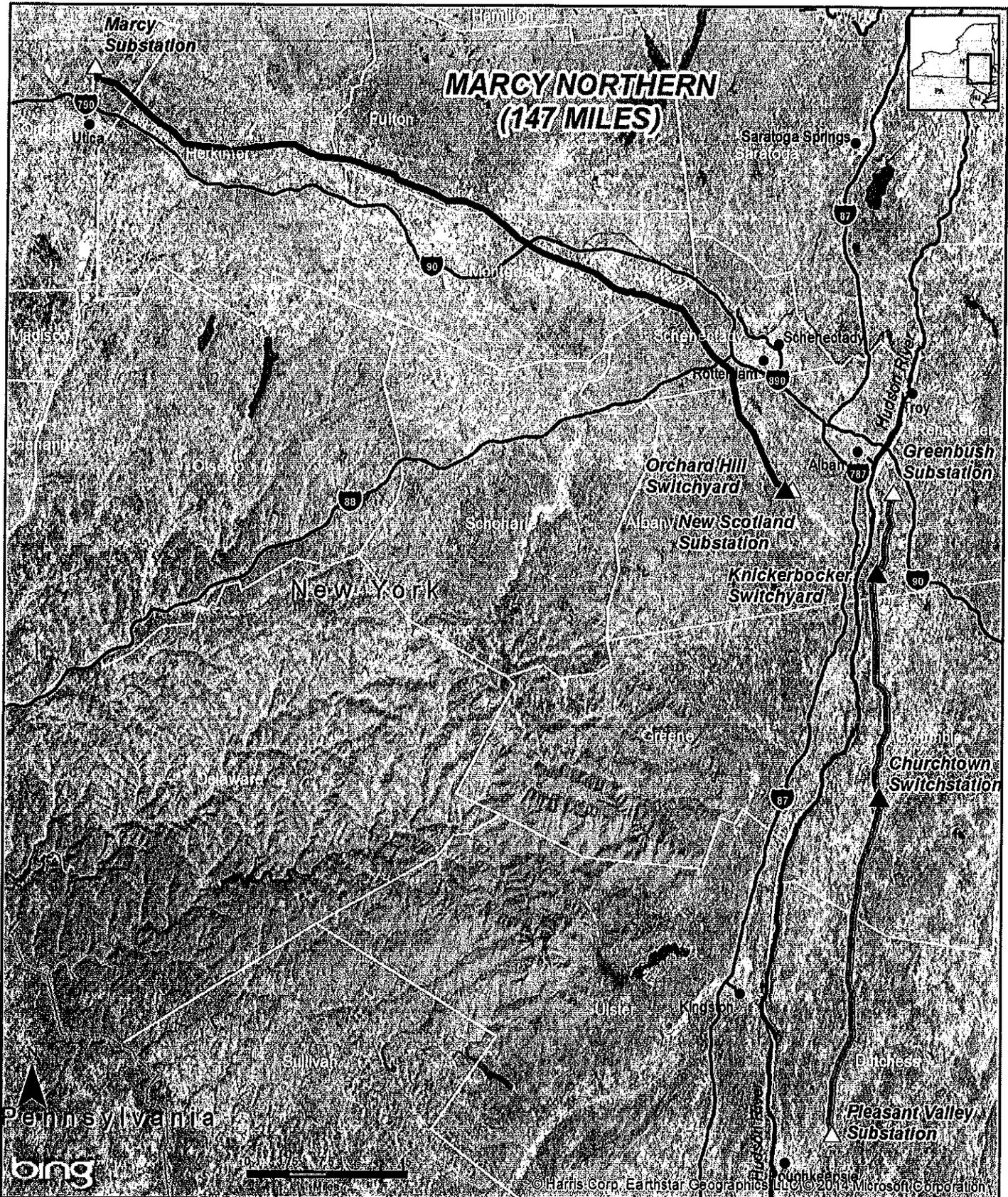


**MARCY SOUTHERN ROUTE 2
(167 MILES)**

New York Energy Highway - Marcy Southern Route 2, January 2015

GOVERNMENT/RAILWAY ROW, REPLACE EXISTING FACILITIES	New Substation	Major Roads
JOINT USE OF FACILITIES	Existing Substation	State Boundary
REPLACE EXISTING FACILITIES	City	County Line
VACANT UTILITY ROW	Rivers	

NEXTERA ENERGY
TRANSMISSION
NEW YORK



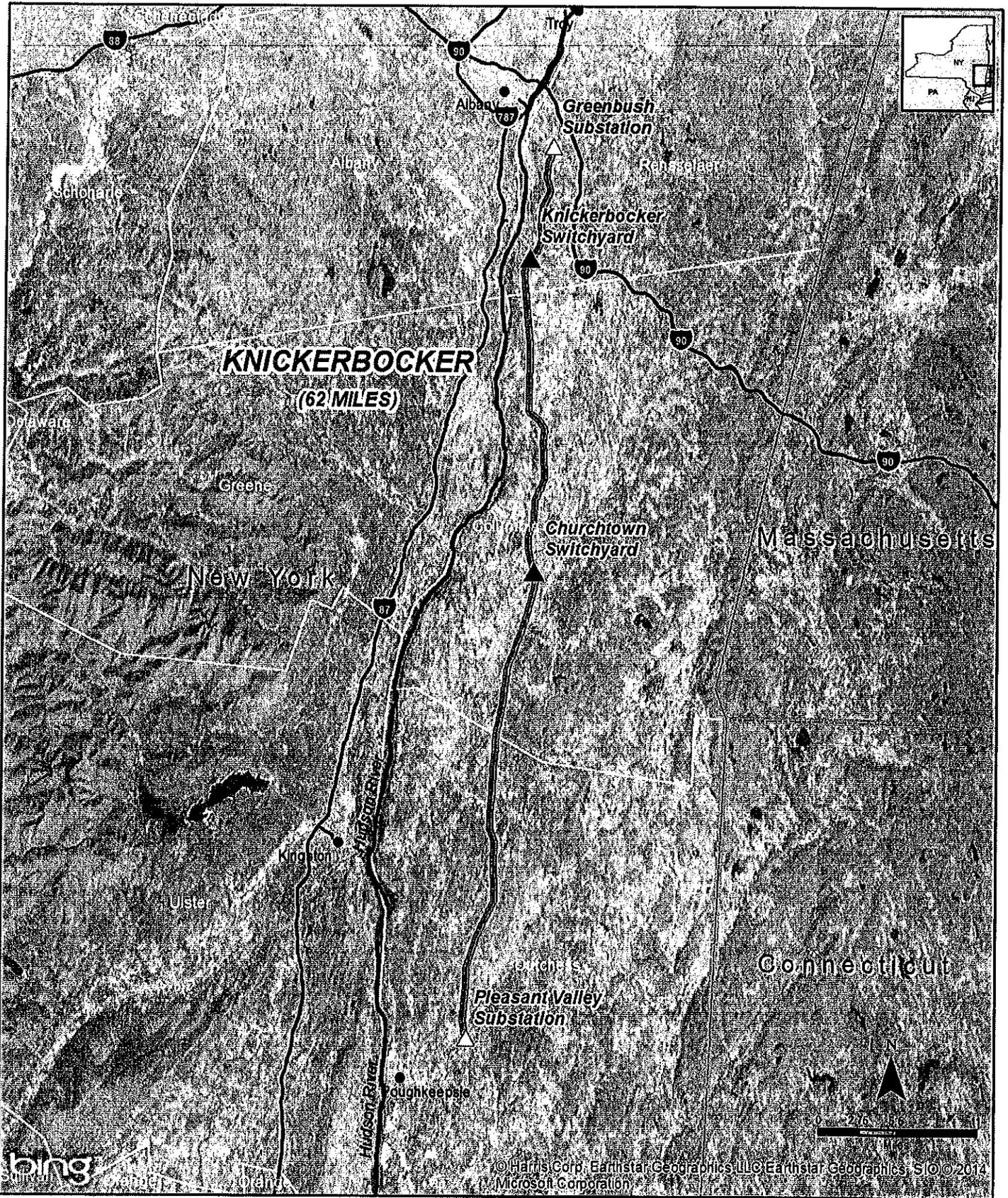
New York Energy Highway - Marcy Northern Route, January 2015

- | | | |
|-----------------------------|---------------------|----------------|
| REPLACE EXISTING FACILITIES | New Substation | Major Roads |
| VACANT UTILITY ROW | Existing Substation | State Boundary |
| | City | County Line |
| | Rivers | |

**NEXTERA™
ENERGY**

**TRANSMISSION
NEW YORK**

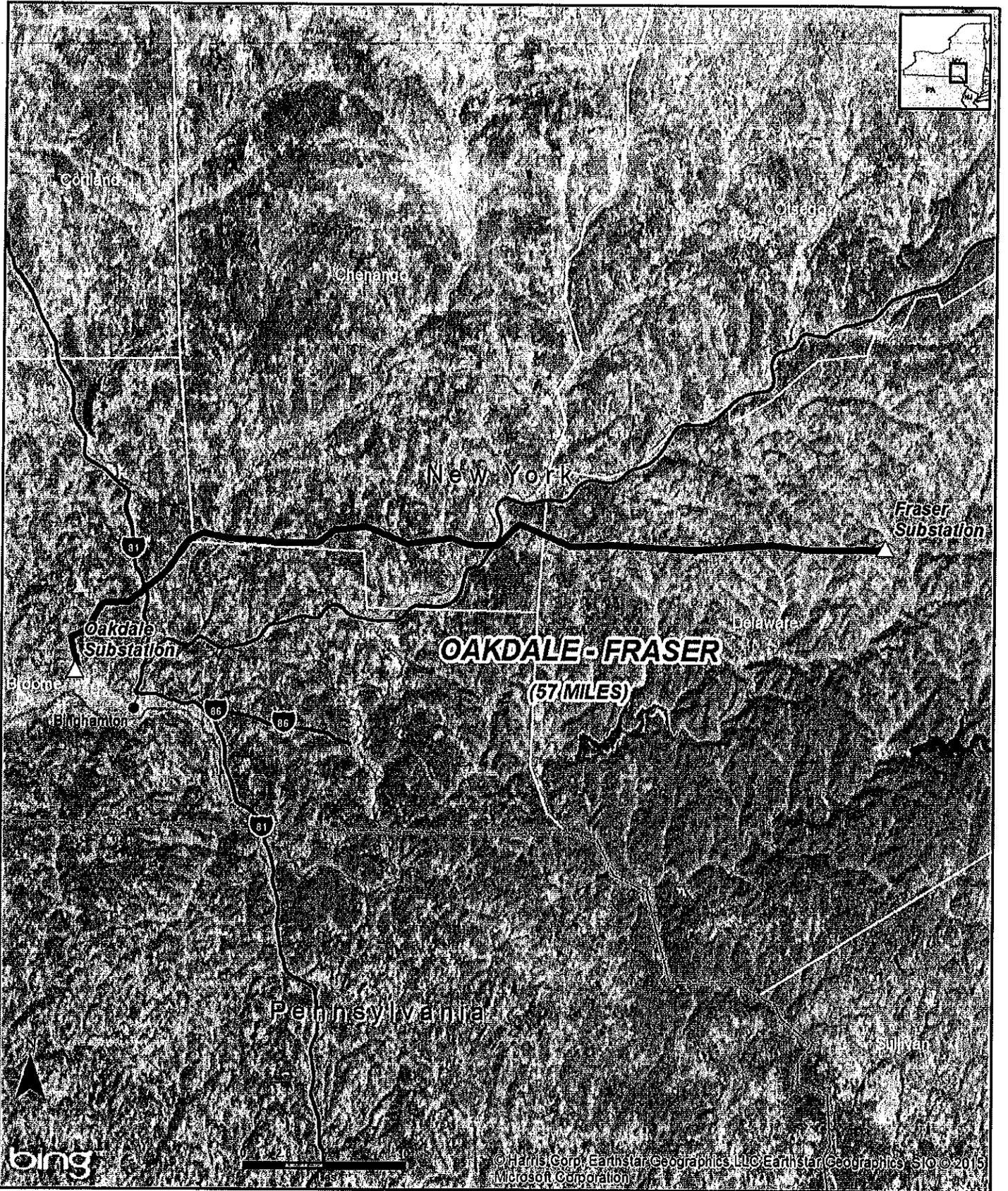
© Harris Corp, Earthstar Geographics, LLC © 2012 Microsoft Corporation



New York Energy Highway - Knickerbocker Route, January 2015

- | | | | | | |
|---|-----------------------------|---|-------------|---|----------------|
|  | REPLACE EXISTING FACILITIES |  | City |  | County Line |
|  | New Substation |  | Rivers |  | Slate Boundary |
|  | Existing Substation |  | Major Roads | | |





New York Energy Highway - Oakdale to Fraser, January 2015

- | | | | | | |
|--|---|--|---------------------|--|----------------|
| | JOINT USE OF FACILITIES OR ADJACENT ROW | | New Substation | | Major Roads |
| | VACANT UTILITY ROW | | Existing Substation | | State Boundary |
| | | | City | | County Line |
| | | | Rivers | | |



© Harris Corp, Earthstar Geographics, LLC, Earthstar Geographics, SIO © 2015 Microsoft Corporation