

**Appendix 3. Gas Infrastructure Serving Generation in NYISO**

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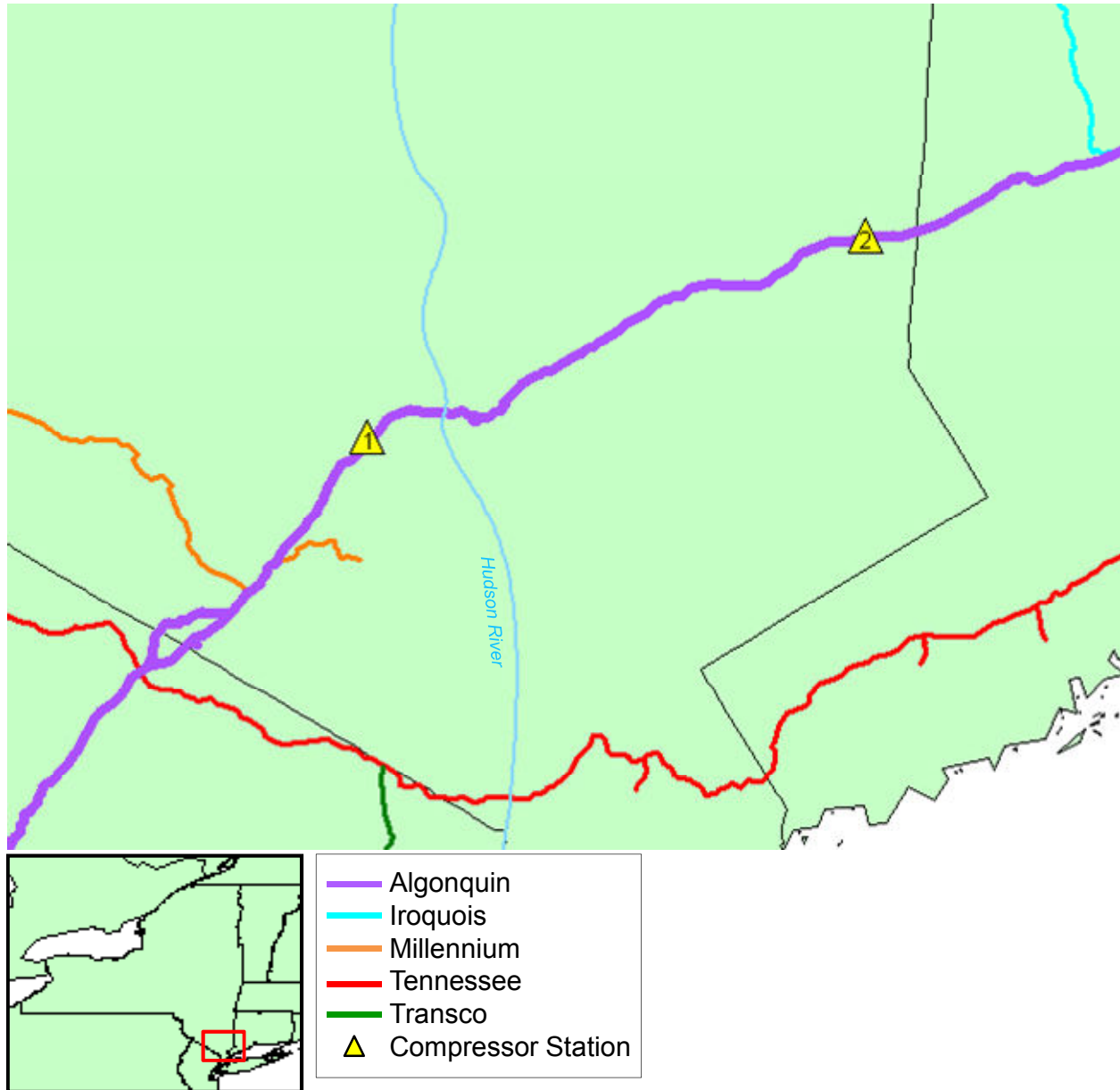
Data Sources:

- Pipeline capacities are taken from Peak Day Capacity reports filed with FERC, except where otherwise noted
- Meter data is taken from the respective pipeline EBBs (see Exhibit 3 for URLs)

**Algonquin Gas Transmission (Spectra Energy)**

Capacity: 1,144 MDth/d (NJ/NY border), 1,450 MDth/d (Stony Point)<sup>1</sup>

**Figure A3-1. Algonquin Facilities in New York**



**Table A3-1. Algonquin Compressor Stations in NYISO**

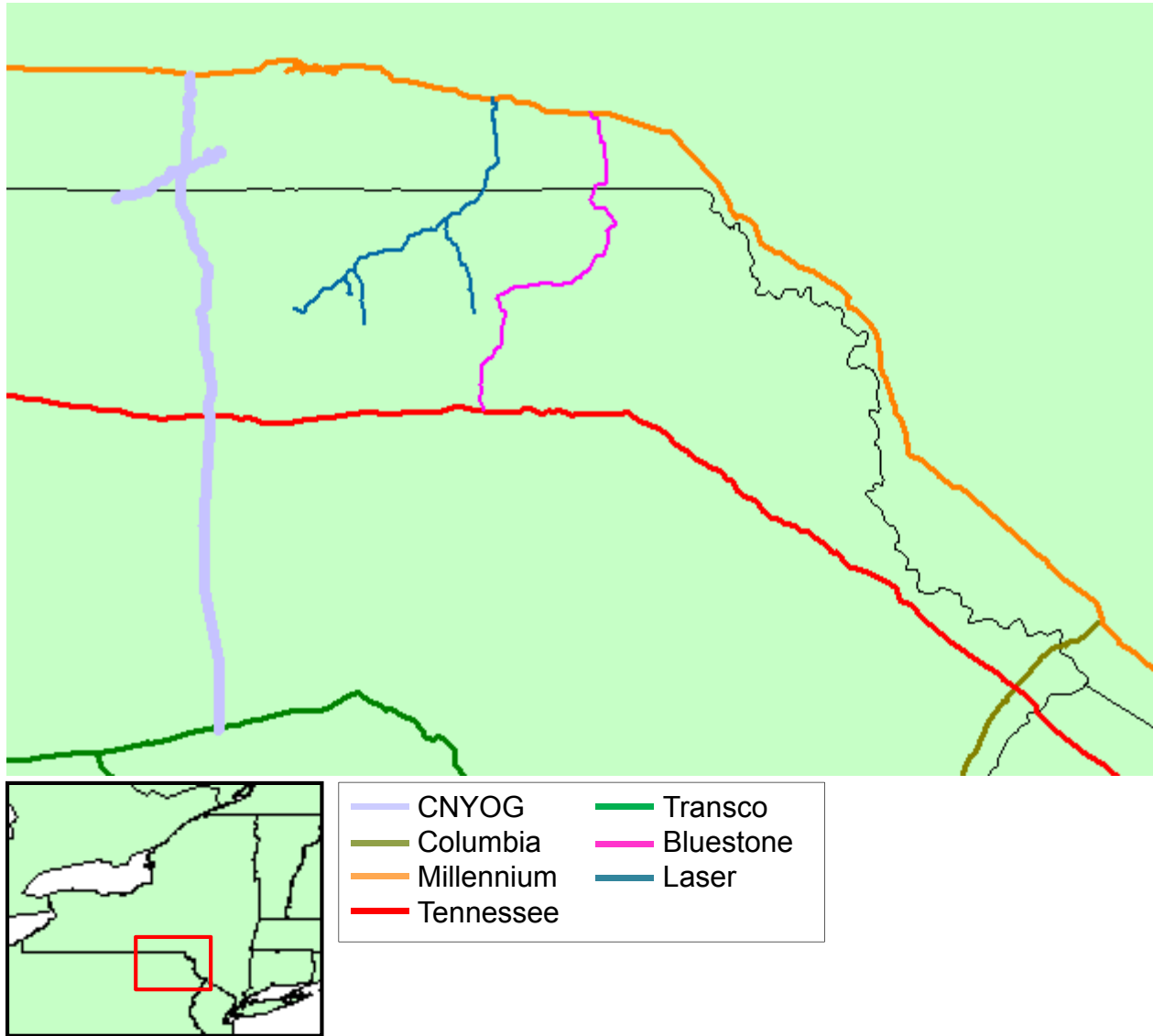
ID	Name	Location
1	Stony Point	Stony Point, NY
2	Southeast	Southeast, NY

<sup>1</sup> Operationally Available Capacity – Operational Capacity Map:  
<https://rtba.spectraenergy.com/InformationalPosting/Default.aspx?bu=AG&Type=OA>

**Central New York Oil & Gas (Crestwood Midstream Partners)**

Capacity: 770 MDth/d<sup>2</sup>

**Figure A3-2. Central New York Oil & Gas Facilities**

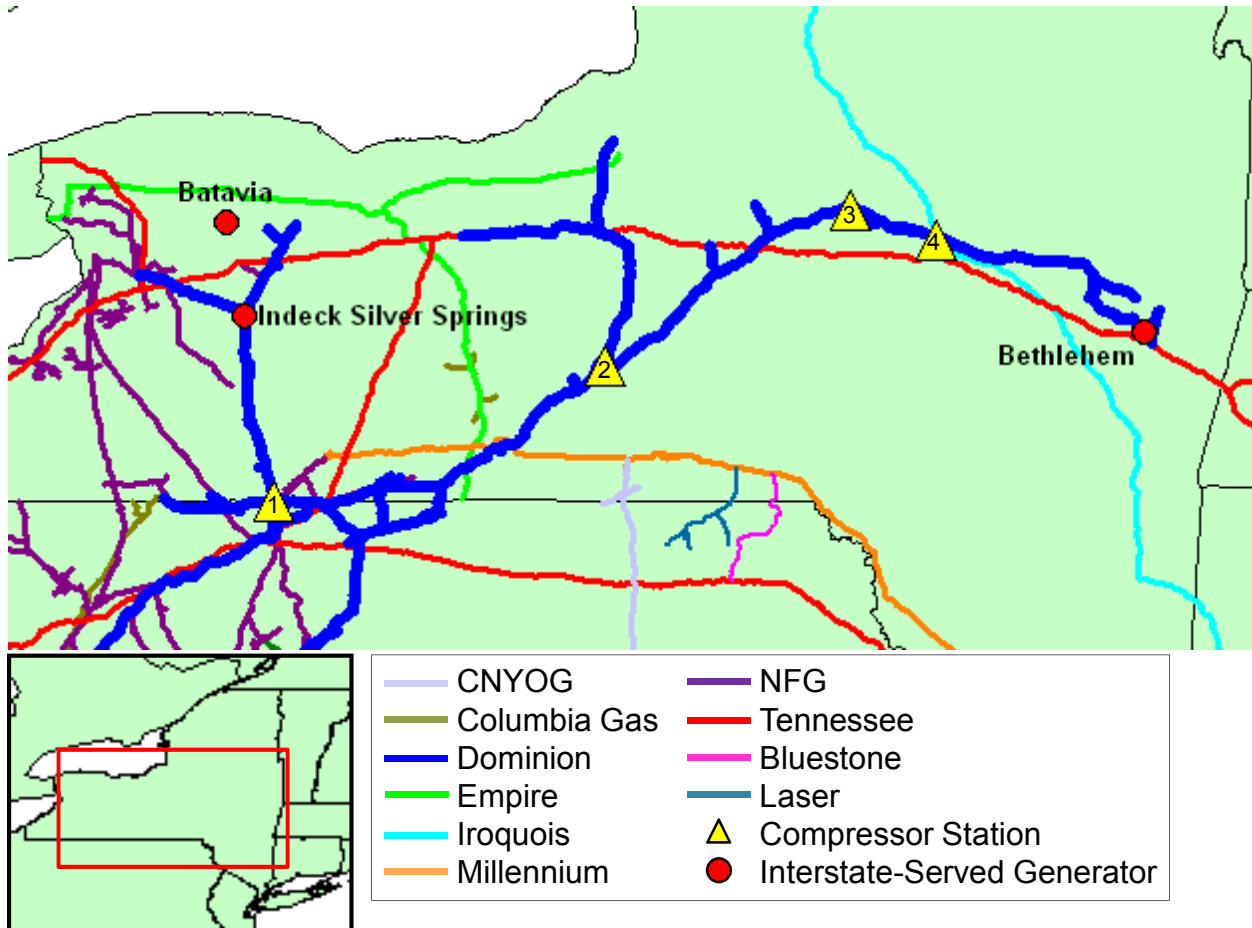


<sup>2</sup> Design capacity of Millennium delivery location, from Operationally Available Capacity report: <http://www.stagecoachstorage.com/oauc.cfm?type=1>

**Dominion Transmission (Dominion Resources)**

Capacity: 6,450 MMcf/d<sup>3</sup>

**Figure A3-3. Dominion Facilities in NYISO**



**Table A3-2. NYISO Generators Directly Connected to Dominion**

<b>Generator</b>	<b>Capacity (MW)</b>	<b>Meter Name</b>	<b>Meter Number</b>
Batavia <sup>4</sup>	67.3	Sithe Energies (Lower Leroy-Seneca)	30005
Bethlehem <sup>5</sup>	893.1	Betdlehem Energy Center TL-470	30200
Indeck Silver Springs	56.6	Indeck Energy (Barber Rd-Silver Spg)	30001

<sup>3</sup> Peak day system throughput during the 2013-14 heating season.

<sup>4</sup> Batavia is directly connected to Dominion through a customer-owned 11.2-mile lateral. NYPSC Case No. 91-T-0669.

<sup>5</sup> Bethlehem also has a direct connection to Tennessee

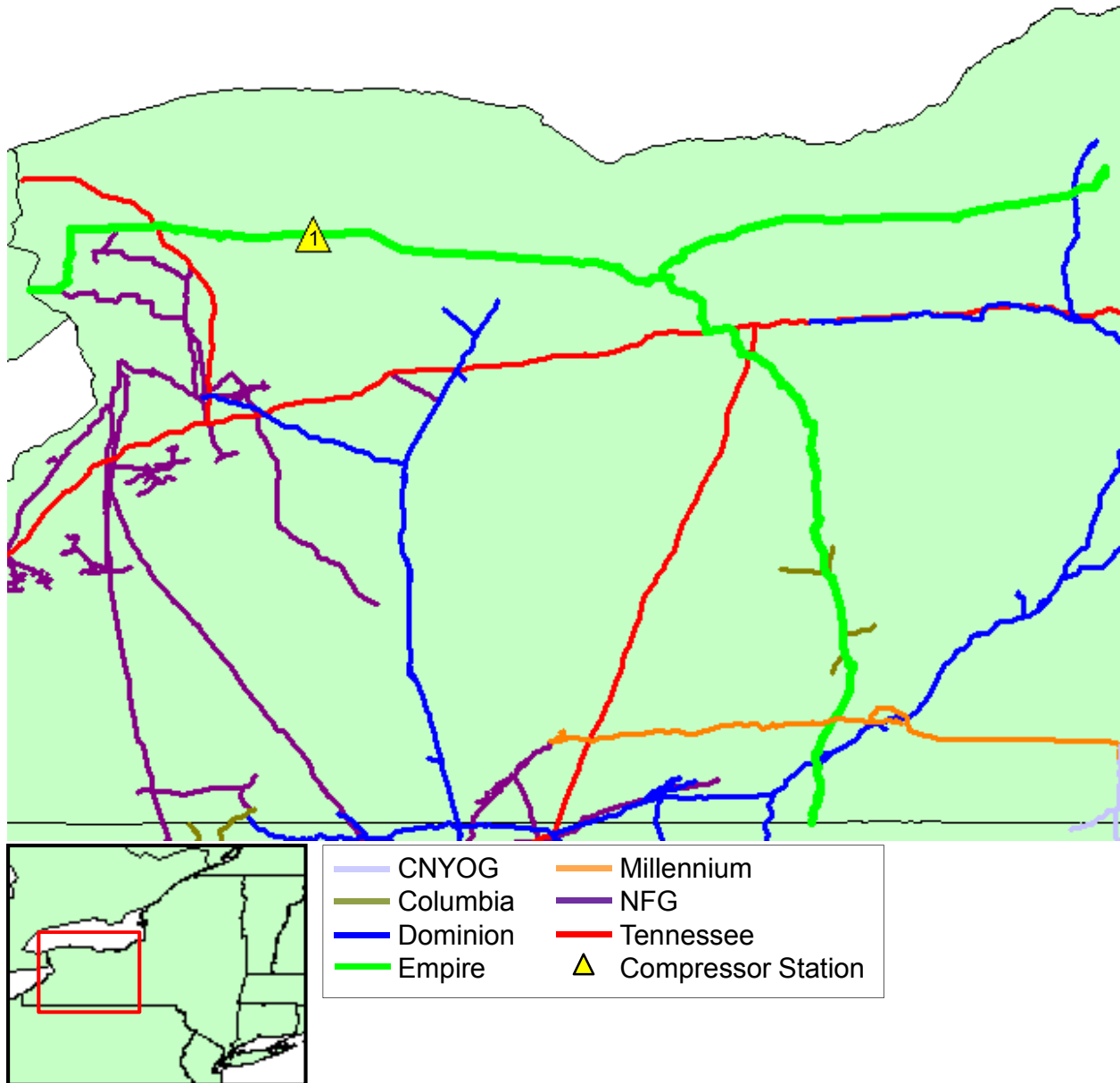
**Table A3-3. Dominion Compressor Stations in NYISO**

<b>ID</b>	<b>Name</b>	<b>Location</b>
1	State Line	Genesee, PA
2	Borger	Ithaca, NY
3	Utica	New Hartford, NY
4	Brookman Corners	Minden, NY

**Empire Pipeline (National Fuel Gas)**

Capacity: 806 MDth/d (east from Chippewa) / 350 MDth/d (north from Pennsylvania)

**Figure A3-4. Empire Facilities**



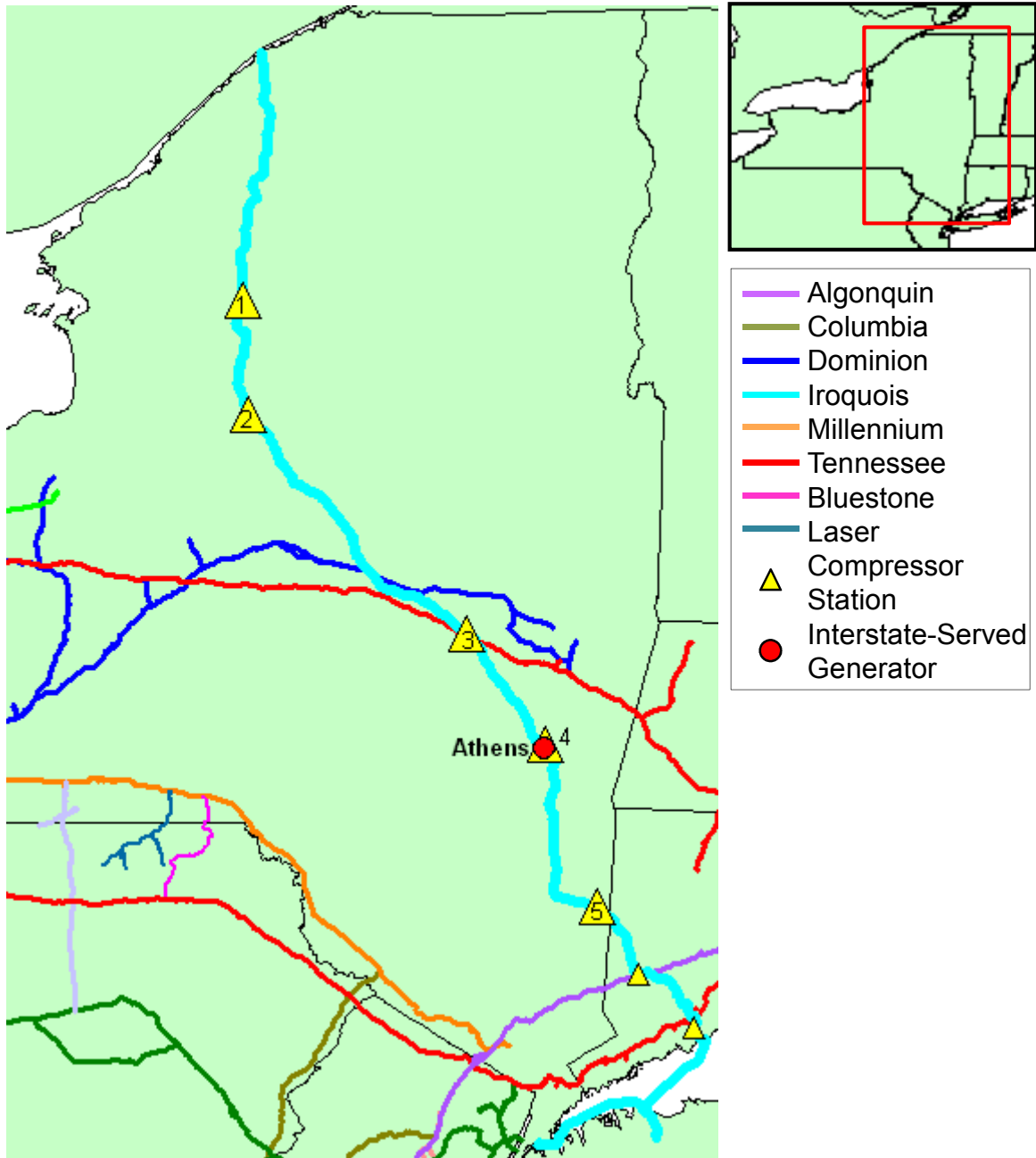
**Table A3-4. Empire Compressor Stations in NYISO**

ID	Name	Location
1	Oakfield	Oakfield, NY

**Iroquois Gas Transmission System<sup>6</sup>**

Capacity: 1,195 MDth/d (Waddington) / 1,545 MDth/d (Waddington + Brookfield)<sup>7</sup>

**Figure A3-5. Iroquois Facilities**



<sup>6</sup> Jointly owned by TransCanada Pipelines Limited (44.48%), Dominion Resources, Inc. (24.72%), National Grid (20.40%), New Jersey Resources Corporation (5.53%) and Iberdrola, USA (4.87%).

<sup>7</sup> Design Capacity Report: [http://iroquois.com/informationalpostings/reports/cap\\_designcap.asp](http://iroquois.com/informationalpostings/reports/cap_designcap.asp)

**Table A3-5. NYISO Generators Directly Connected to Iroquois**

<b>Generator</b>	<b>Capacity (MW)</b>	<b>Meter Name</b>	<b>Meter Number</b>
Athens	1,323.0	Athens	349565

**Table A3-6. Iroquois Compressor Stations in NYISO**

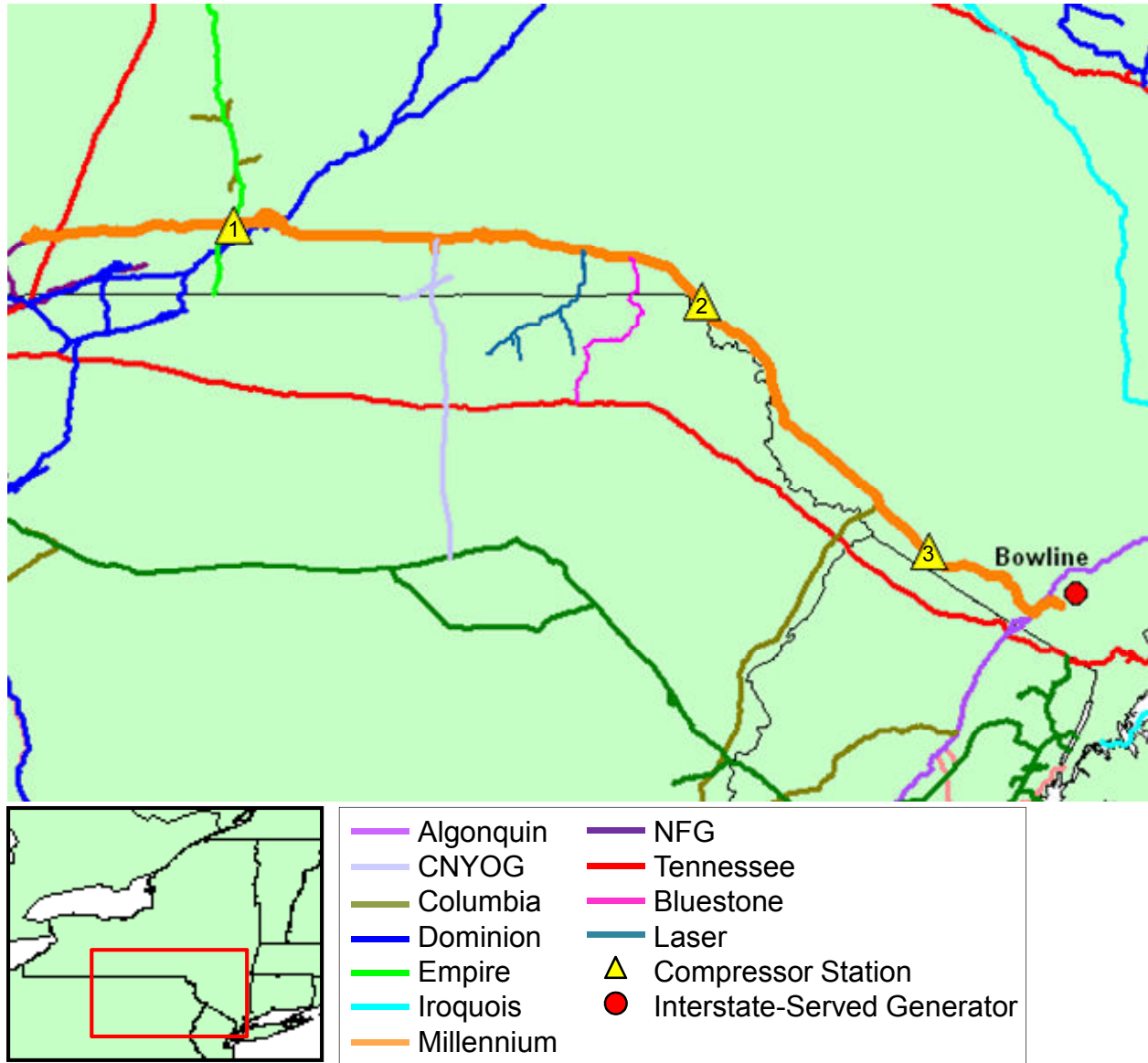
<b>ID</b>	<b>Name</b>	<b>Location</b>
1	Croghan	Croghan, NY
2	Boonville	Boonville, NY
3	Wright	Delanson, NY
4	Athens	Athens, NY
5	Dover	Dover, NY
6	Brookfield	Brookfield, CT
7	Milford	Milford, CT



**Millennium Pipeline (NiSource / National Grid / DTE Energy)**

Capacity: 783 MDth/d<sup>8</sup>

**Figure A3-6. Millennium Facilities**



**Table A3-7. NYISO Generators Directly Connected to Millennium**

Generator	Capacity (MW)	Meter Name	Meter Number
Bowline <sup>9</sup>	1,242.0	Bowline	637528

<sup>8</sup> 2014 peak day capacity of 675.4 MDth/d *plus* 107.5 MDth/d of incremental capacity associated with the Hancock Compressor Station Project (FERC Docket No. CP 13-14), which was placed into service on March 31, 2014.

<sup>9</sup> A 4.2-mile spur pipeline, Hudson Valley Gas Transmission, connects Millennium to Bowline. Bowline is also served by the Orange & Rockland LDC

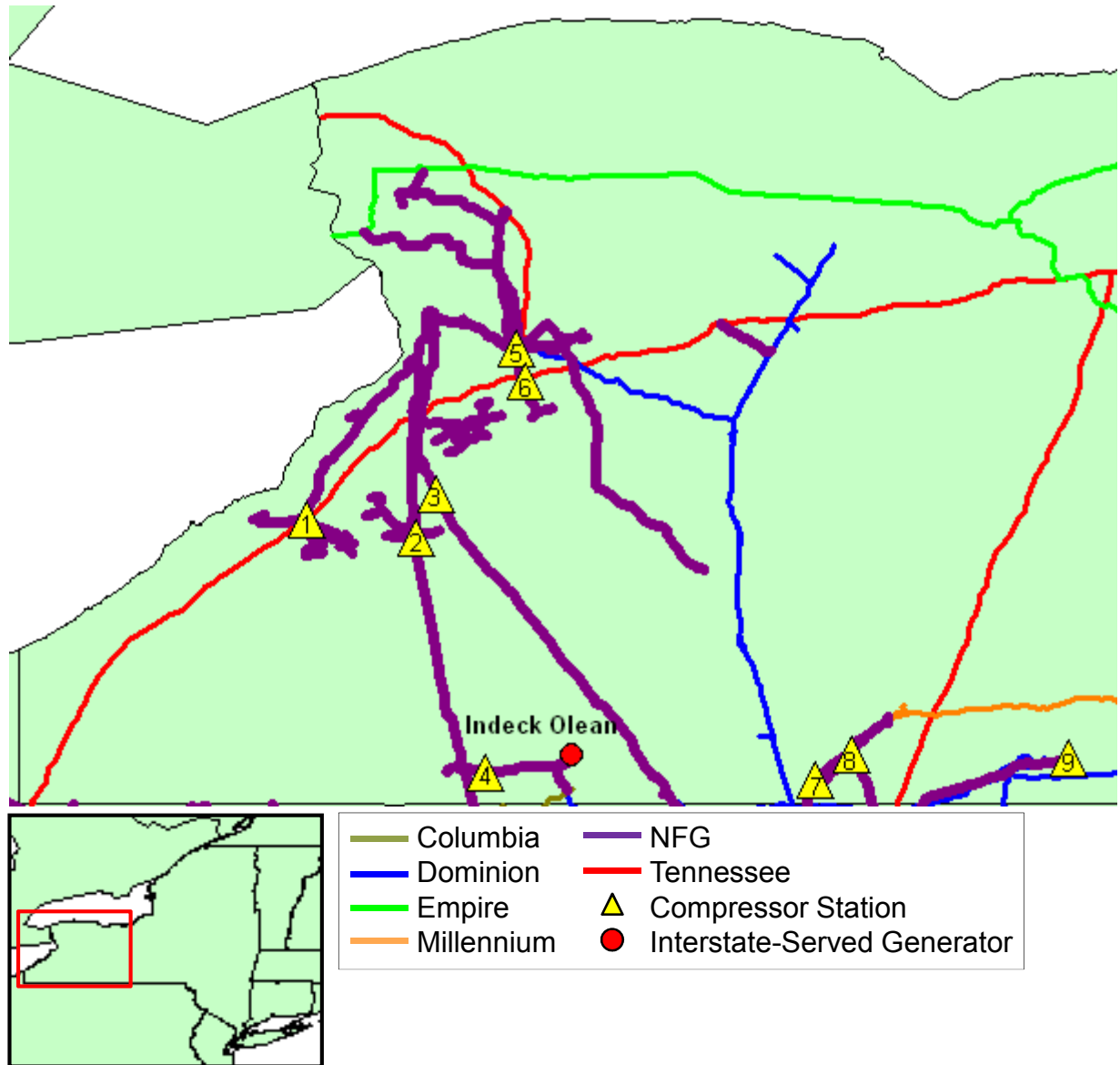
**Table A3-8. Millennium Compressor Stations in NYISO**

<b>ID</b>	<b>Name</b>	<b>Location</b>
1	Corning	Corning, NY
2	Hancock	Hancock, NY
3	Minisink	Millennium, NY

**National Fuel Gas Supply Corporation (National Fuel Gas Company)**

Capacity: 2,764 MDth/d

**Figure A3-7. NFG Facilities in New York**



**Table A3-9. NYISO Generators Directly Connected to NFG**

Generator	Capacity (MW)	Meter Name	Meter Number
Indeck Olean	90.6	IESI - Indeck Olean	INDECKOLEAN

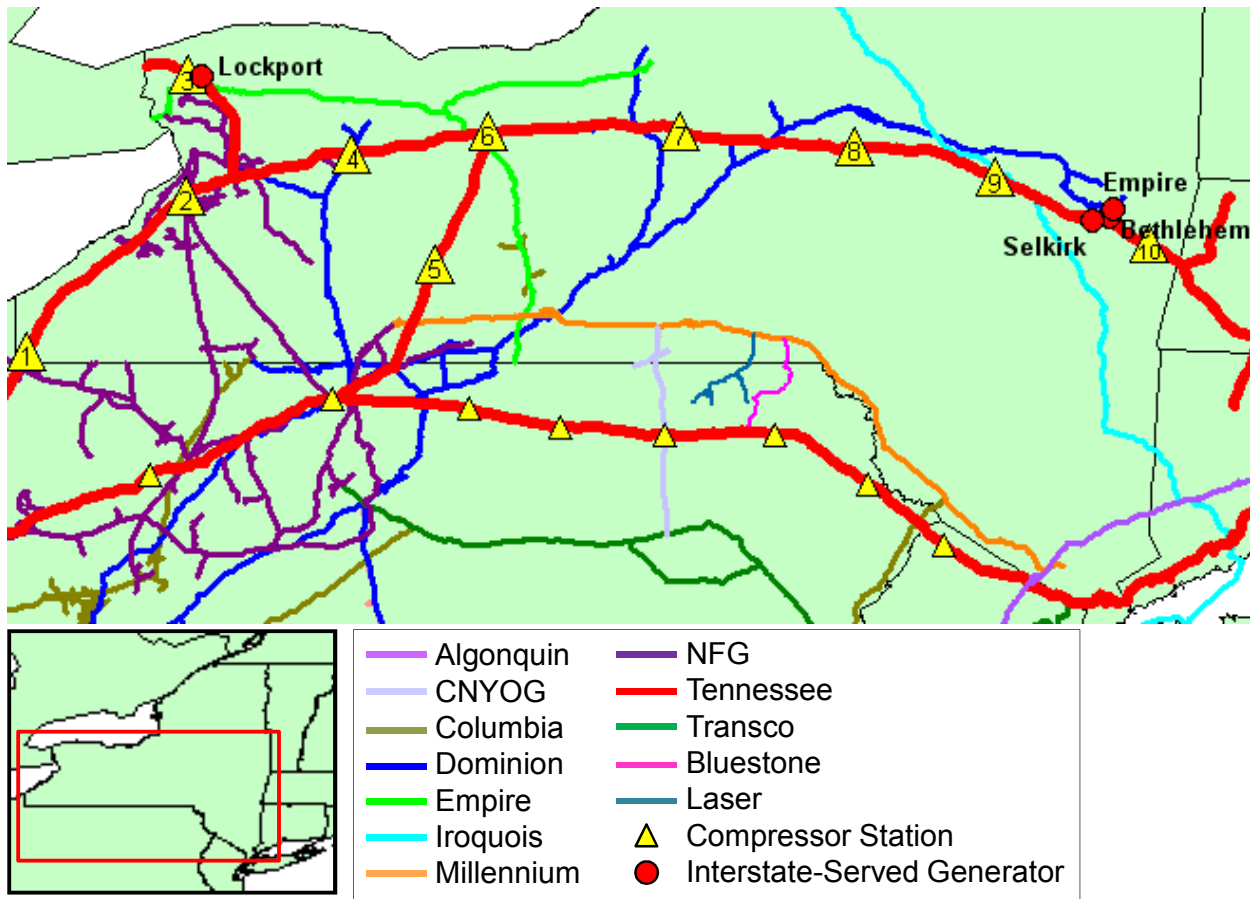
**Table A3-10. NFG Compressor Stations in NYISO**

<b>ID</b>	<b>Name</b>	<b>Location</b>
1	Nashville	Nashville, NY
2	Zoar	Zoar, NY
3	Concord	Concord, NY
4	Limestone	Limestone, NY
5	Porterville	Porterville, NY
6	East Aurora	East Aurora, NY
7	Beech Hill	Beech Hill, NY
8	Independence	Independence, NY
9	Tuscarora	Tuscarora, NY

**Tennessee Gas Pipeline (Kinder Morgan)**

Capacity: 440MDth/d (Station 224), 1,034 MDth/d (Station 237), 1,207 (Station 249)<sup>10</sup>

**Figure A3-8. Tennessee Facilities in New York**



**Table A3-11. NYISO Generators Directly Connected to Tennessee**

Generator	Capacity (MW)	Meter Name	Meter Number
Bethlehem	893.1	Sprague/TGP Bethlehem Sales Albany	420816
Empire	670.0	EmpireGn/TGP Schodack Rensselaer	421070
Lockport	221.3	Shell/TGP Harrison Co Gen Sales Nia	420739
Selkirk	446.0	BP Energ/TGP Selkirk Sms Albany	420731

<sup>10</sup> Operationally Available Capacity – Segment Capacity:  
<http://pipeline2.kindermorgan.com/Capacity/OpAvailSegment.aspx?code=TGP>

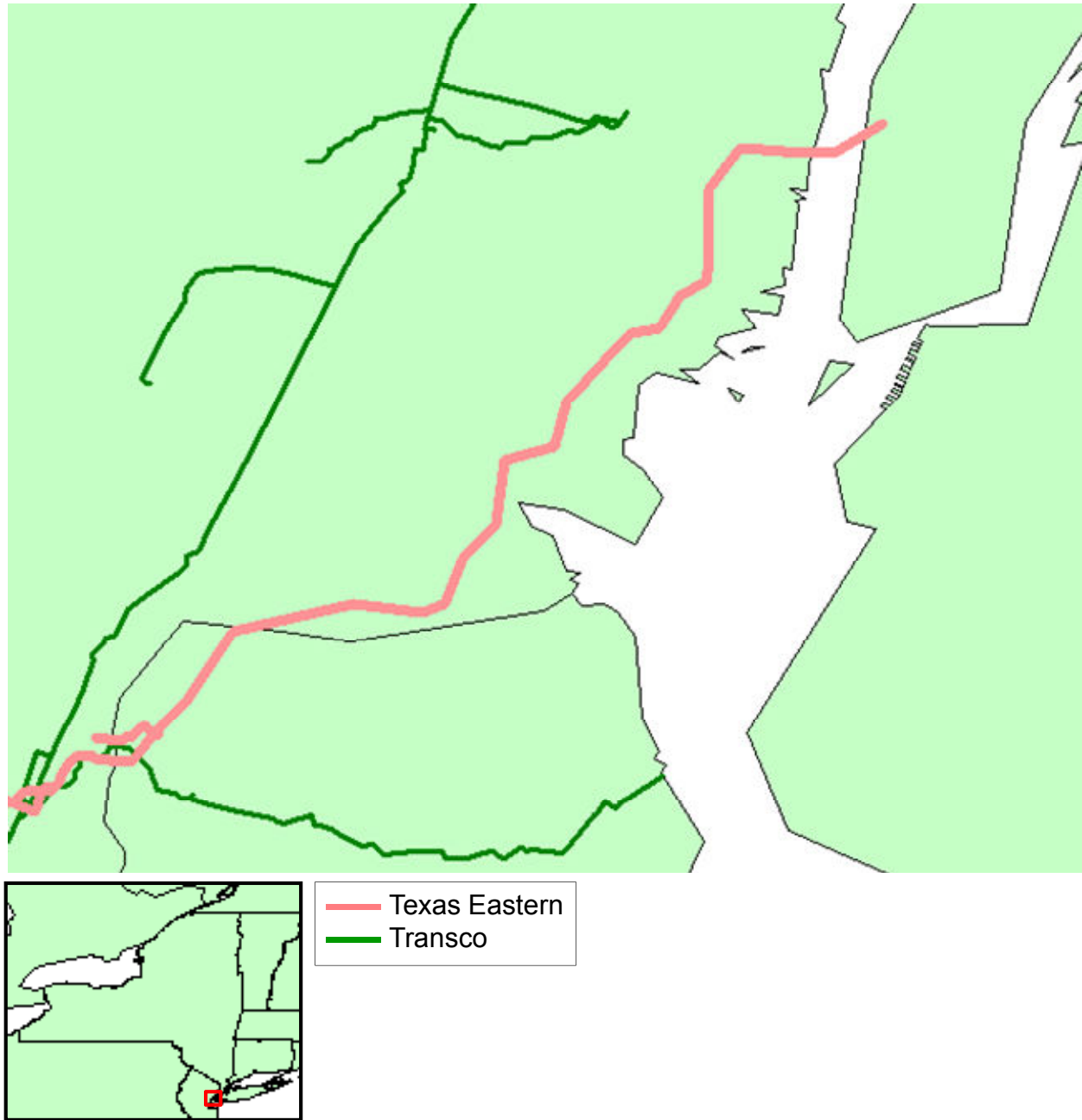
**Table A3-12. Tennessee Compressor Stations in NYISO**

<b>ID</b>	<b>Name</b>	<b>Location</b>
1	Station 224	Clymer, NY
2	Station 229	Hamburg, NY
3	Station 230C	Lockport, NY
4	Station 233	Geneseo, NY
5	Station 405A	Avoca, NY
6	Station 237	Clifton Springs, NY
7	Station 241	Syracuse, NY
8	Station 245	West Winfield, NY
9	Station 249	Carlisle, NY
10	Station 254	Nassau, NY

**Texas Eastern Transmission (Spectra Energy)**

*Capacity: Approximately 1,500 MDth/d into New York Facilities System<sup>11</sup>*

**Figure A3-9. Texas Eastern Facilities in New York**

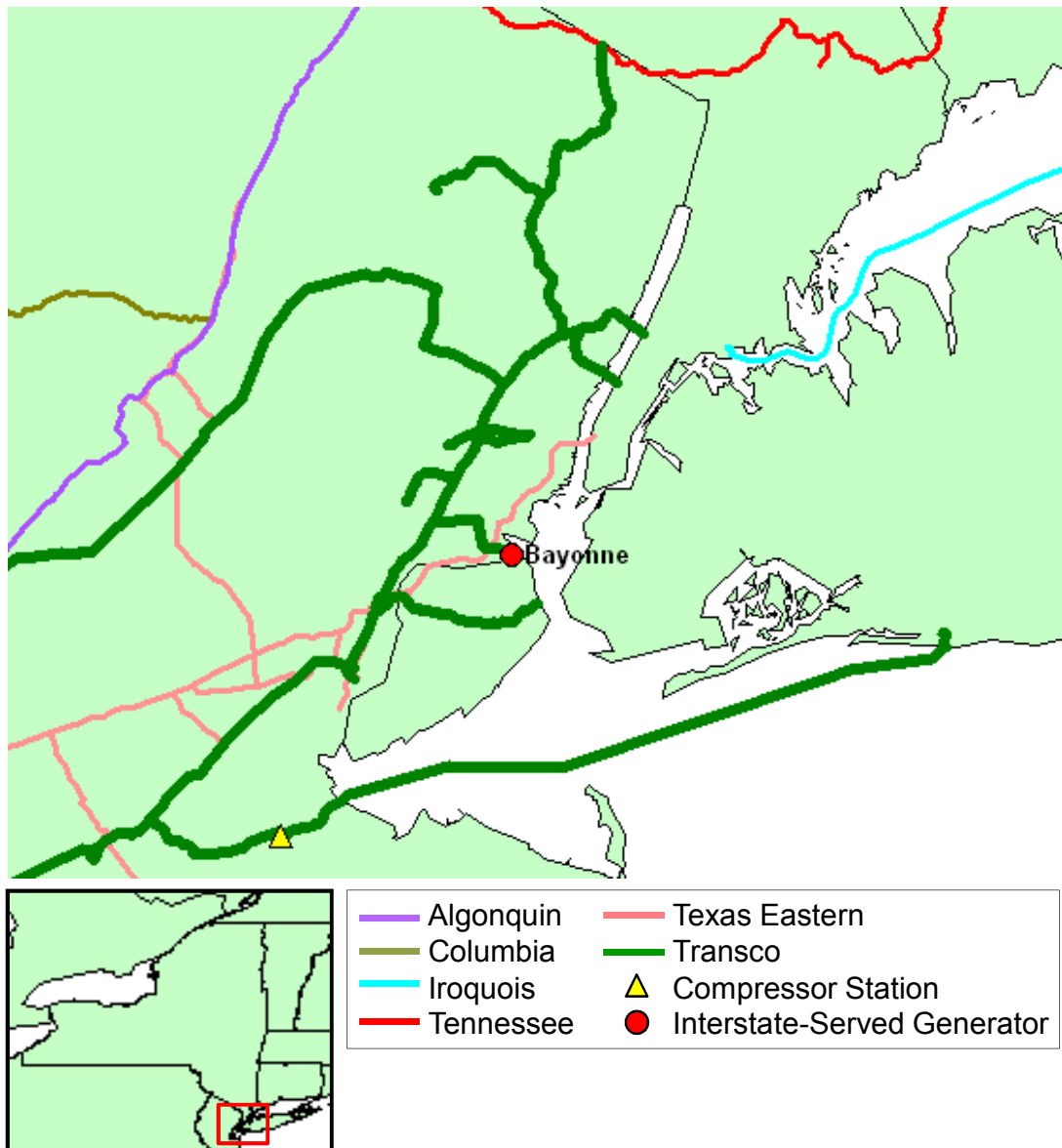


<sup>11</sup> Includes 690 MDth/d into Staten Island ([http://www.nyiso.com/public/webdocs/markets\\_operations/committees/bic\\_egcwg/meeting\\_materials/2012-03-27/NYF\\_Overview\\_Presentation\\_to\\_NYISO\\_March\\_5\\_2012.pdf](http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_egcwg/meeting_materials/2012-03-27/NYF_Overview_Presentation_to_NYISO_March_5_2012.pdf)) and 800 MDth/d into Manhattan (FERC Docket No. CP11-56, in service November 2013).

**Transcontinental Pipeline (Williams)**

Capacity: Approximately 1,800 MDth/d into New York Facilities System<sup>12</sup>

**Figure A3-10. Transco Facilities Serving NYISO**



**Table A3-13. NYISO Generators Directly Connected to Transco**

Generator	Capacity (MW)	Meter Name	Meter Number
Bayonne Energy Center <sup>13</sup>	512.0	BEC M6323 MP 6.12	9006583

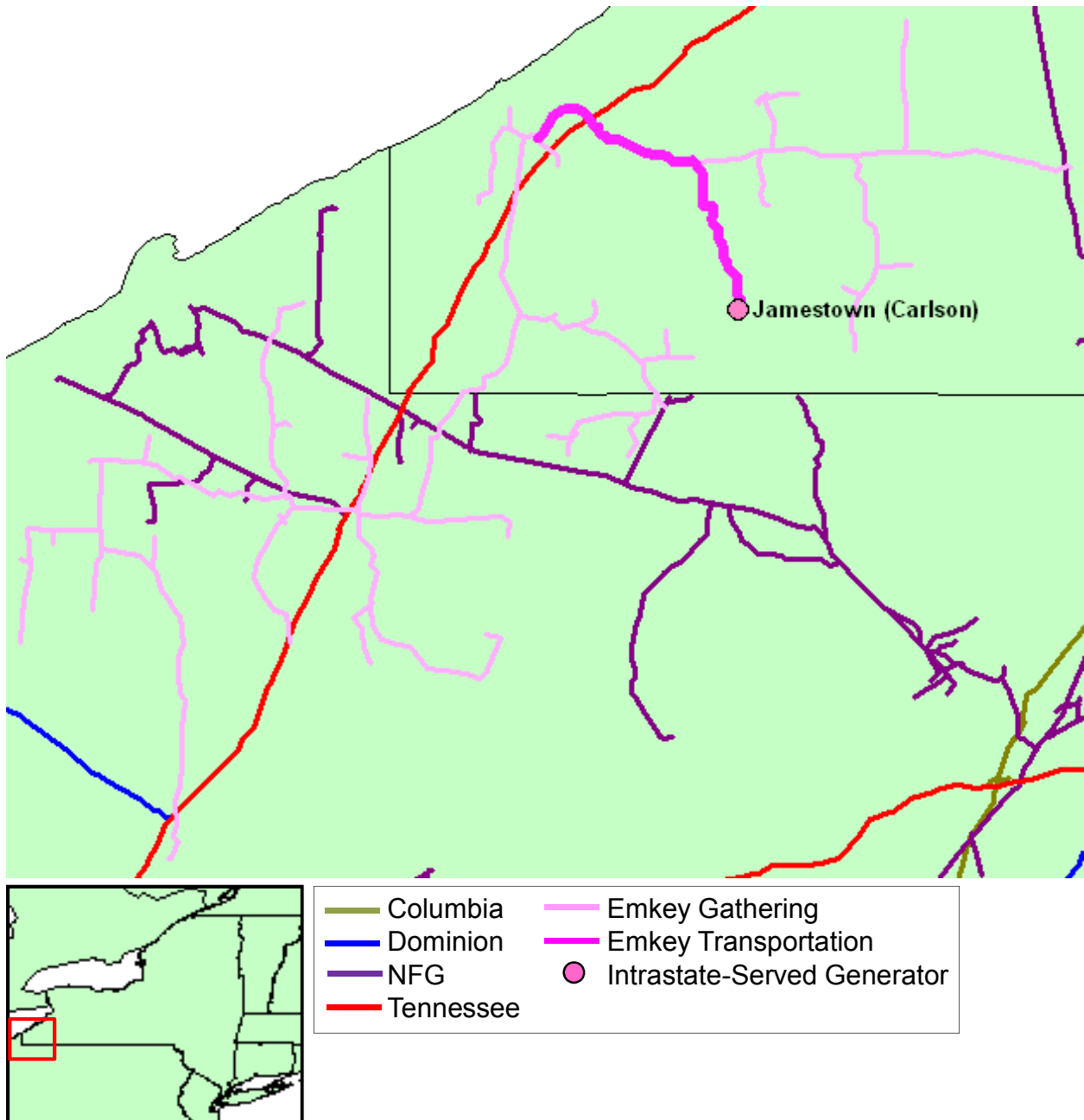
<sup>12</sup> Includes 1,593 MDth/d ([http://www.nyiso.com/public/webdocs/markets\\_operations/committees/bic\\_egcwg/meeting\\_materials/2012-03-27/NYF\\_Overview\\_Presentation\\_to\\_NYISO\\_March\\_5\\_2012.pdf](http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_egcwg/meeting_materials/2012-03-27/NYF_Overview_Presentation_to_NYISO_March_5_2012.pdf)) plus 200 MDth/d of Northeast Supply Link Project capacity (FERC Docket No. CP12-30, in service November 2013).

<sup>13</sup> Located in New Jersey but electrically connected to NYISO Zone J (New York City). In addition to the direct connection to Transco, the Bayonne Energy Center is also connected via the PSE&G LDC to a Texas Eastern delivery meter that was constructed as part of the New Jersey-New York Expansion Project.



**Emkey Transportation (Emkey Energy)**

**Figure A3-11. Emkey Transportation Facilities**



**Table A3-14. NYISO Generators Served by Emkey Transportation**

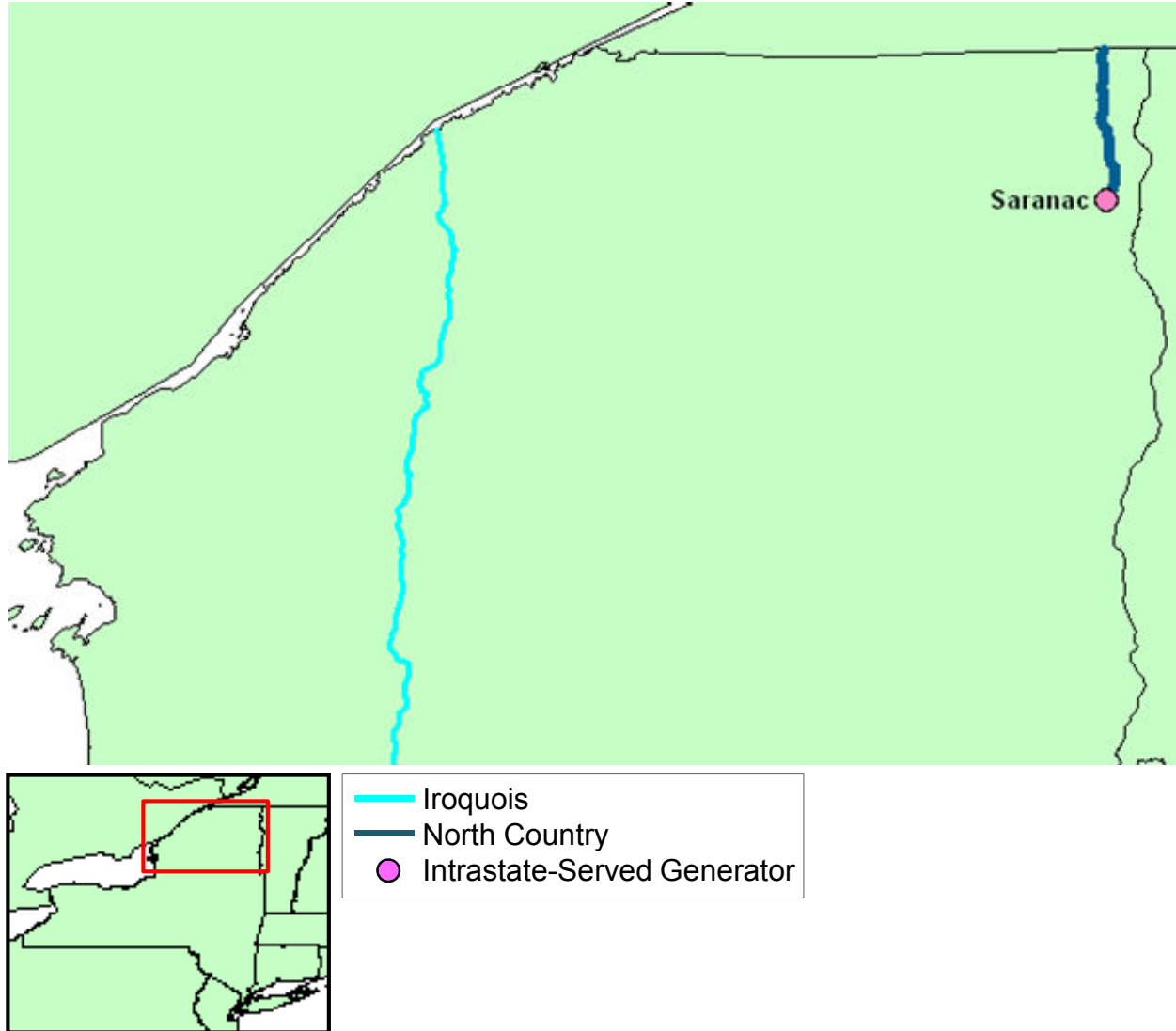
<b>Generator</b>	<b>Capacity (MW)</b>
Jamestown (Carlson)	47.3

**North Country Pipeline (TransAlta)**

*Capacity: 105 MDth/d<sup>14</sup>*

The 22-mile North Country Pipeline imports gas from TransCanada at Napierville.

**Figure A3-12. North Country Facilities**



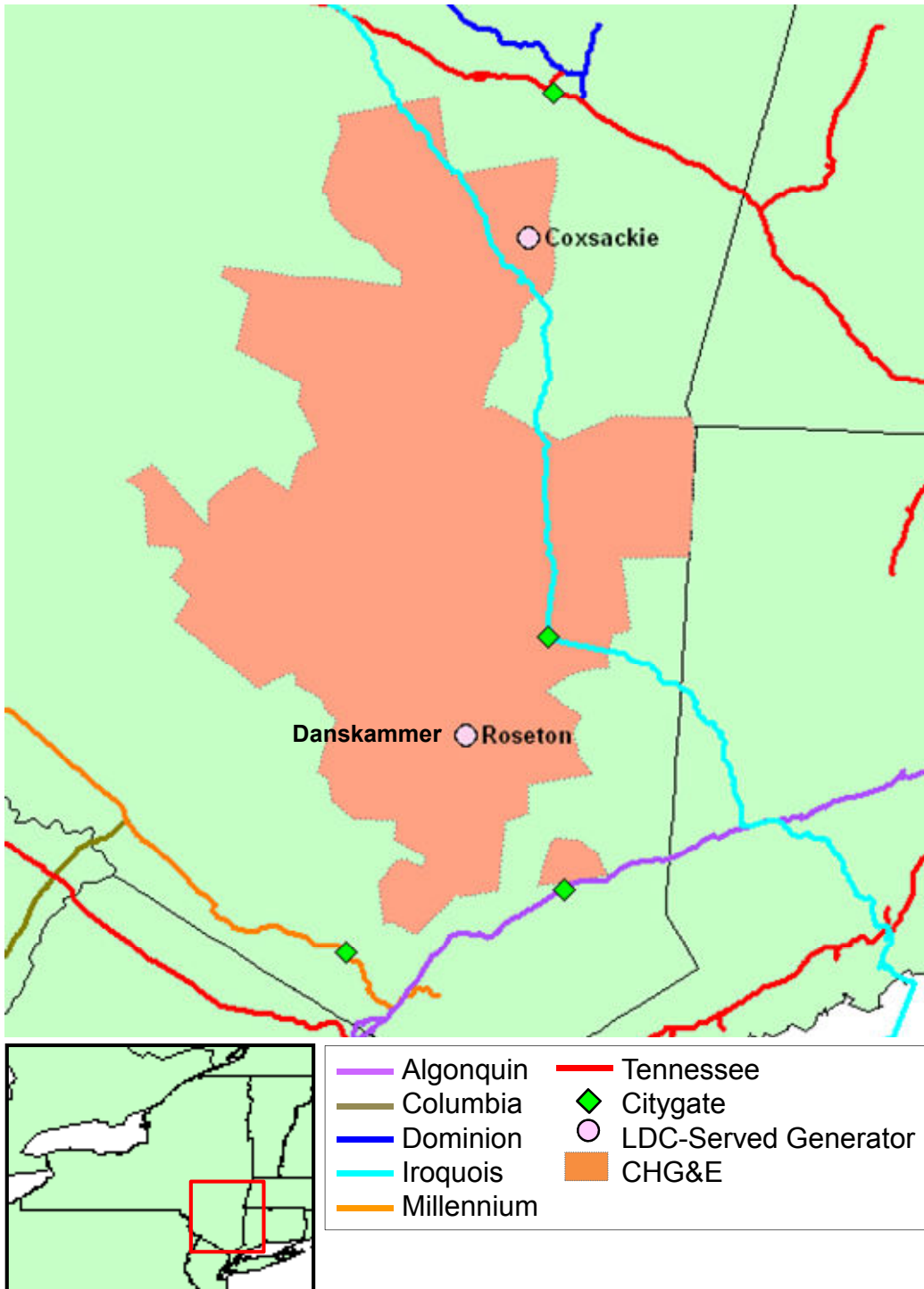
**Table A3-15. NYISO Generators Served by North Country**

<b>Generator</b>	<b>Capacity (MW)</b>
Saranac	285.6

<sup>14</sup> Source: NYPSC Declaratory Ruling in Case No. 92-M-0322.

Central Hudson Gas & Electric (Fortis, Inc.)

Figure A3-13. Central Hudson Gas & Electric Service Territory



**Table A3-16. NYISO Generators Served by Central Hudson Gas & Electric**

<b>Generator</b>	<b>Capacity (MW)</b>
Coxsackie	21.6
Danskammer <sup>15</sup>	530.0
Roseton	1,242.0

**Table A3-17. Central Hudson Gas & Electric Citygate Meters**

<b>Pipeline</b>	<b>Meter Name</b>	<b>Meter Number</b>
Algonquin	Somers (Westchester)	45
Iroquois	Pleasant Valley	67577
Millennium	Central Hudson	600314
Tennessee	Cedar Hill New York	420275

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<sup>15</sup> The Danskammer plant has been shuttered since sustaining significant damage during Hurricane Sandy in October 2012. On March 13, 2014, Helios Power Capital, the plant's current owner, notified the NYPSC that it intends to re-open the retirement ruling and resume operation of the plant.

Consolidated Edison

Figure A3-14. Con Edison Service Territory

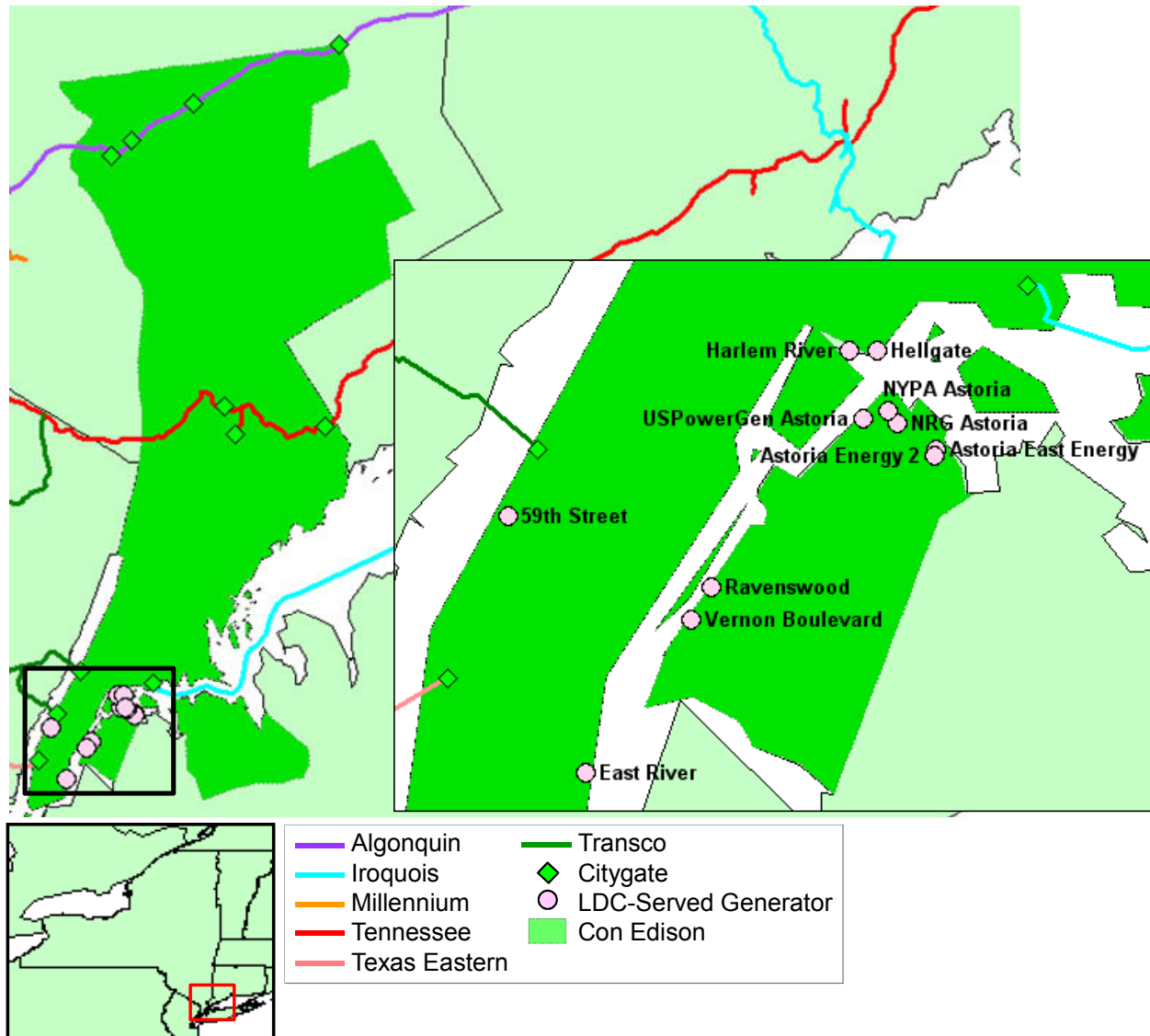


Table A3-18. NYISO Generators Served by Con Edison

Generator	Capacity (MW)
59th Street	17.1
US PowerGen Astoria	779.0
Astoria East Energy	640.0
Astoria Energy 2	660.0
East River	730.2
Harlem River	80.0
Hellgate	80.0
NRG Astoria	558.0
NYPA Astoria	576.0
Ravenswood	2536.0
Vernon Boulevard	80.0

**Table A3-19. Con Edison Citygate Meters**

<b>Pipeline</b>	<b>Meter Name</b>	<b>Meter Number</b>
Algonquin	Peekskill (Westchester,NY)	41
Algonquin	Cortlandt (Westchester,NY)	47
Algonquin	Yorktown (Westchester,NY)	48
Algonquin	North Somers (Westchester,NY)	811
Iroquois	Hunts Point	321765
Tennessee	Con Ed/TGP White Plains NY Westches	420093
Tennessee	Con Ed/TGP Rye NY Westchester	420344
Tennessee	Con Ed/TGP Knollwood NY Westchester	420477
Texas Eastern	ConEd-Manhattan Delivery	73722
Transco	Central Manhattan (72 <sup>nd</sup> Street)	16
Transco	Manhattan (134 <sup>th</sup> Street)	

<sup>16</sup> Grouped under location “Consolidated Edison” and meter number 1006571 on Transco’s Master Location List, and under location “New York Fac Group MP 1829.08” and meter number 1099998 for Operationally Available Capacity postings.

Fillmore Gas

Figure A3-15. Fillmore Gas Service Territory

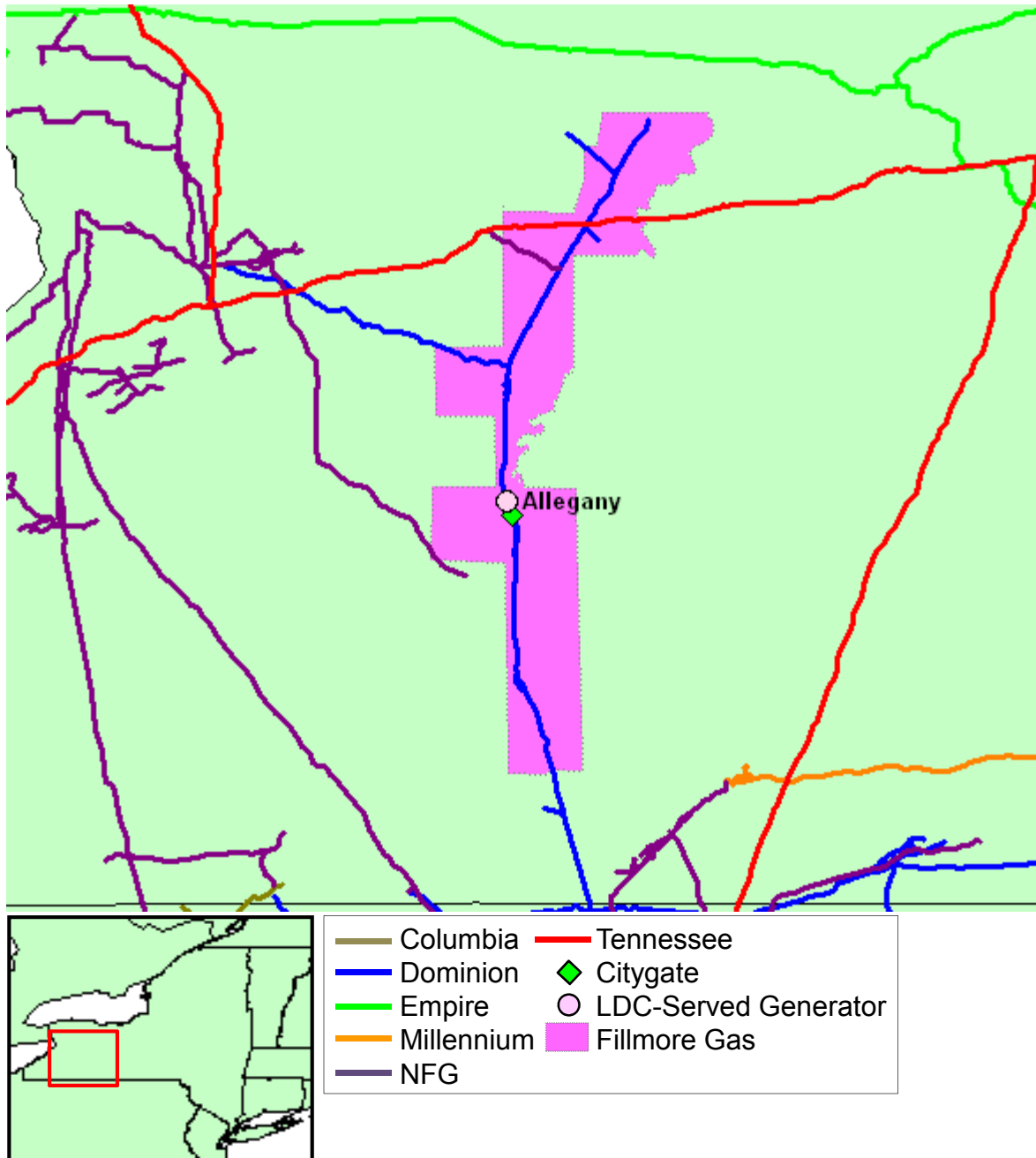


Table A3-20. NYISO Generators Served by Fillmore Gas

Generator	Capacity (MW)
Allegany	67.0

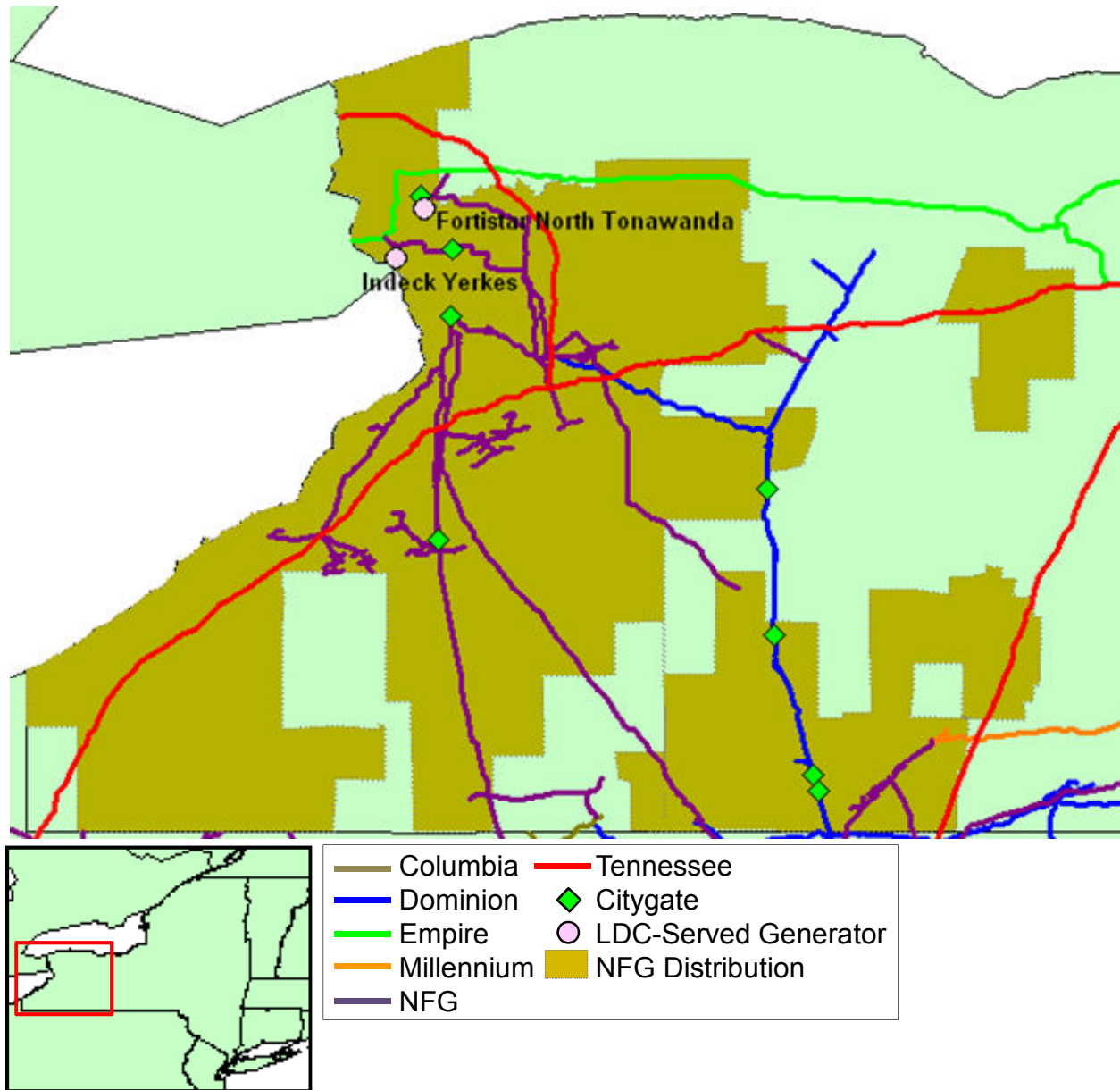
**Table A3-21. Fillmore Gas Citygate Meters**

<b>Pipeline</b>	<b>Meter Name</b>	<b>Meter Number</b>
Dominion	Fillmore	23600
Dominion	Allegany Generating Station LLC	23632



**National Fuel Gas Distribution**

**Figure A3-16. NFG Distribution Service Territory in New York**



**Table A3-22. NYISO Generators Served by NFG Distribution**

<b>Generator</b>	<b>Capacity (MW)</b>
Fortistar North Tonawanda	55.3
Indeck Yerkes	59.9

**Table A3-23. NFG Distribution Citygate Meters**

<b>Pipeline</b>	<b>Meter Name</b>	<b>Meter Number</b>
Dominion	National Fuel	20900
NFG	NFGDC NY	NFGDC NY

National Grid

Figure A3-17. National Grid Long Island Service Territory



Figure A3-18. National Grid New York City Service Territory

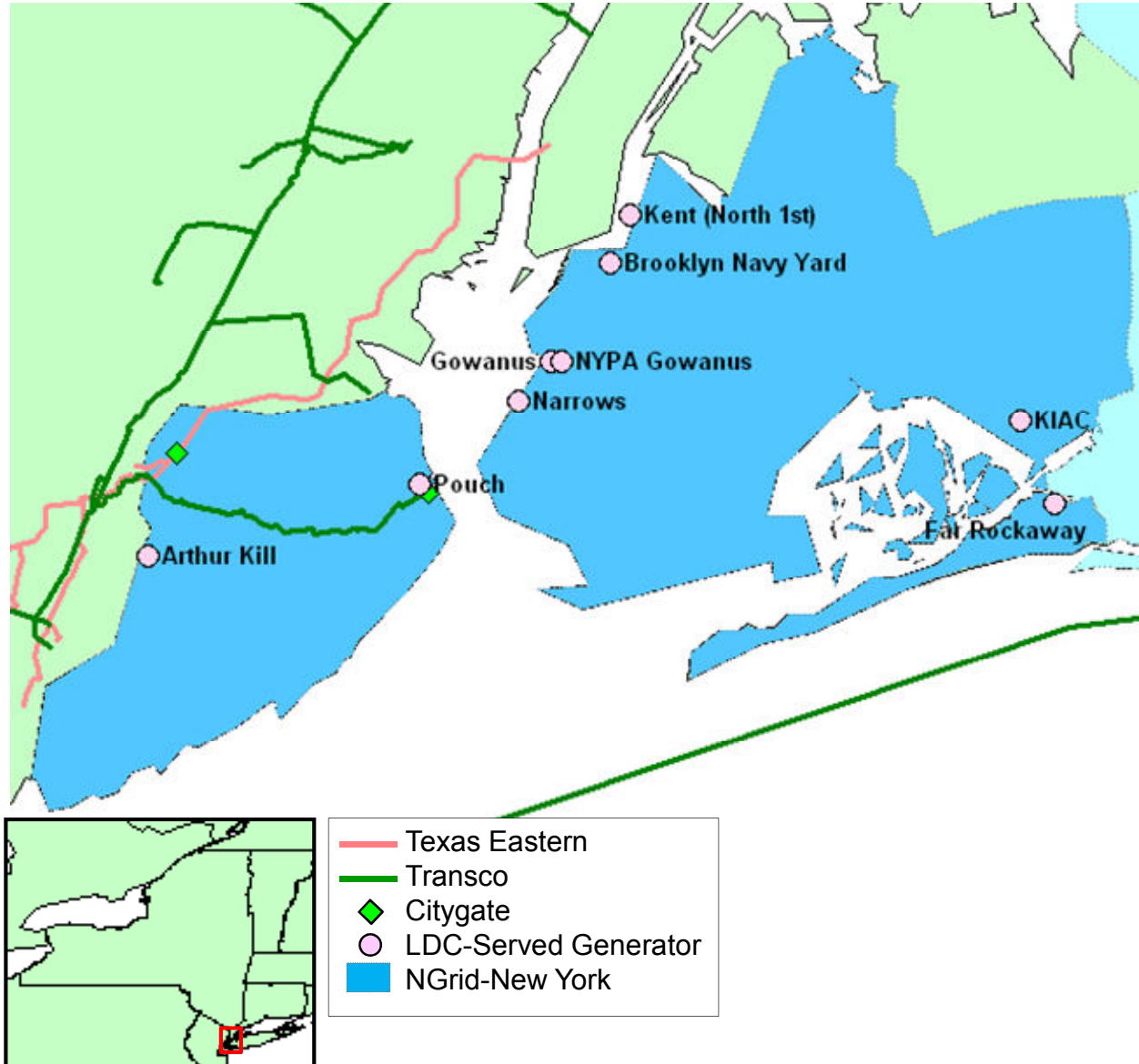
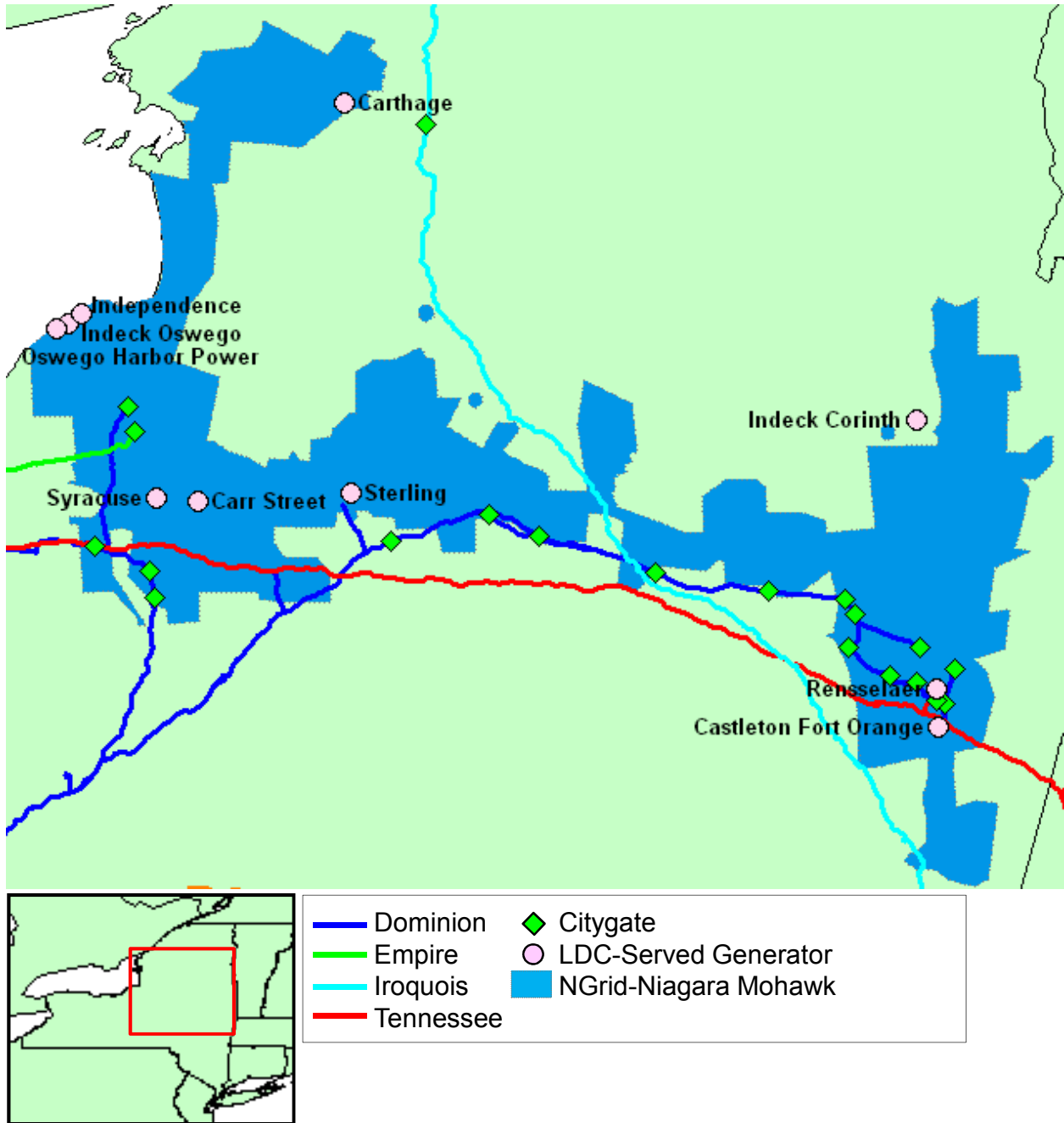


Figure A3-19. National Grid-Niagara Mohawk Service Territory



**Table A3-24. NYISO Generators Served by National Grid**

<b>NGrid System</b>	<b>Generator</b>	<b>Capacity (MW)</b>
NGrid-Long Island	Barrett	669.2
NGrid-Long Island	Brentwood	50.0
NGrid-Long Island	Caithness	375.0
NGrid-Long Island	Calpine Bethpage	143.6
NGrid-Long Island	Charles P Keller	29.5
NGrid-Long Island	Flynn	170.0
NGrid-Long Island	Freeport Electric	60.5
NGrid-Long Island	Glenwood <sup>17</sup>	106.0
NGrid-Long Island	LIPA Bethpage	96.0
NGrid-Long Island	LIPA Freeport	60.0
NGrid-Long Island	Pilgrim	100.0
NGrid-Long Island	Pinelawn	82.0
NGrid-Long Island	Port Jefferson <sup>18</sup>	482.0
NGrid-Long Island	Stony Brook	47.0
NGrid-Long Island	Trigen Nassau	55.0
NGrid-New York	Arthur Kill	931.7
NGrid-New York	Brooklyn Navy Yard	322.0
NGrid-New York	Far Rockaway	60.0
NGrid-New York	Gowanus	320.0
NGrid-New York	Kent (North 1st)	50.0
NGrid-New York	KIAC	121.2
NGrid-New York	Narrows	352.0
NGrid-New York	NYPA Gowanus	100.0
NGrid-New York	Pouch	50.0
NGrid-Niagara Mohawk	Carr Street	122.6
NGrid-Niagara Mohawk	Carthage	62.9
NGrid-Niagara Mohawk	Castleton Fort Orange	72.0
NGrid-Niagara Mohawk	Indeck Corinth	147.0
NGrid-Niagara Mohawk	Indeck Oswego	57.4
NGrid-Niagara Mohawk	Independence	1254.0
NGrid-Niagara Mohawk	Oswego Harbor Power	901.8
NGrid-Niagara Mohawk	Rensselaer	103.7
NGrid-Niagara Mohawk	Sterling	65.3
NGrid-Niagara Mohawk	Syracuse	102.7

<sup>17</sup> Glenwood also has 126 MW of oil-only capacity.

<sup>18</sup> Port Jefferson also has 16 MW of oil-only capacity.

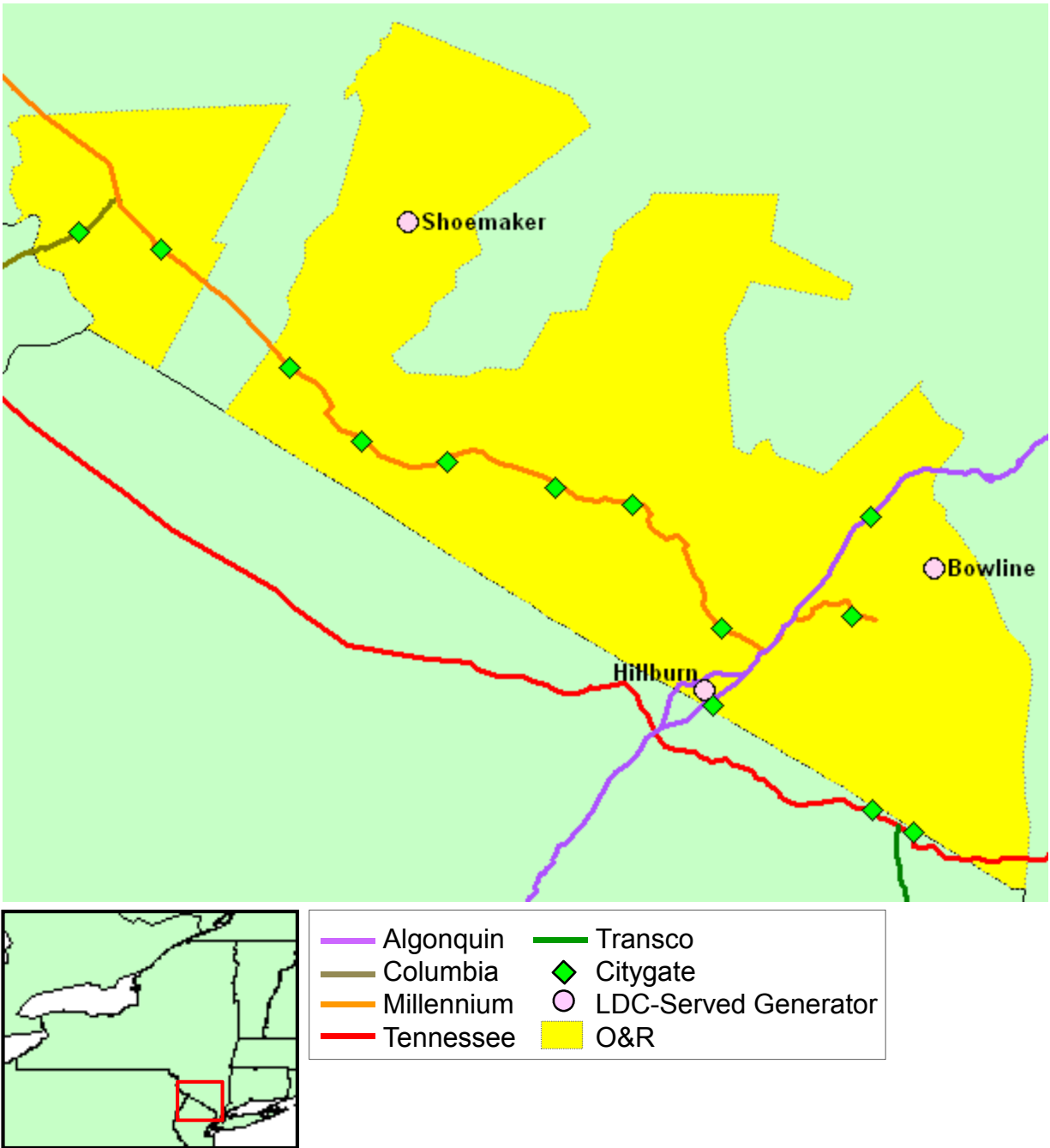
**Table A3-25. National Grid Citygate Meters**

<b>NGrid System</b>	<b>Pipeline</b>	<b>Meter Name</b>	<b>Meter Number</b>
NGrid-Long Island	Iroquois	South Commack	68102
NGrid-Long Island	Transco	Long Island Lighting	1006382
NGrid-New York	Texas Eastern	National Grid Metro NY, Goethals Rd., Staten Island, Richmo	70058
NGrid-New York	Texas Eastern	National Grid Metro NY, Goethals Rd., Staten Island, Richmo	74058
NGrid-New York	Texas Eastern	Bug Co Nat- Brooklyn Union Gas Company (National Grid NY)	74059
NGrid-New York	Transco	Narrows / Brooklyn Union	1006558
NGrid-Niagara Mohawk	Dominion	Niagara Mohawk Power Corporation (Eastern)	20550
NGrid-Niagara Mohawk	Dominion	Niagara Mohawk Power Corporation (Western)	20500
NGrid-Niagara Mohawk	Empire	NMPCANGC - Phoenix Line 39 - Ni Mo	012002020
NGrid-Niagara Mohawk	Empire	NMPCANGC - Phoenix Line 63 - Sithe <sup>19</sup>	012002010
NGrid-Niagara Mohawk	Iroquois	Boonville	264332
NGrid-Niagara Mohawk	Iroquois	Croghan	147193
NGrid-Niagara Mohawk	Tennessee	NiagMoh/TGP South Albany Albany	420918

<sup>19</sup> Niagara Mohawk Line 63 is a dedicated lateral from Empire to the Independence plant.

Orange & Rockland (Con Edison)

Figure A3-20. Orange & Rockland Service Territory



**Table A3-26. NYISO Generators Served by Orange & Rockland**

<b>Generator</b>	<b>Capacity (MW)</b>
Bowline <sup>20</sup>	1,242.0
Hillburn	46.5
Shoemaker	41.9

**Table A3-27. Orange & Rockland Citygate Meters**

<b>Pipeline</b>	<b>Meter Name</b>	<b>Meter Number</b>
Algonquin	Suffern (Rockland,NY)	39
Algonquin	Stony Point (Rockland,NY)	40
Columbia	Port Jervis	600320
Millennium	Greenwood Lake	600324
Millennium	Tuxedo	600325
Millennium	Sloatsburg	600318
Millennium	Huguenot	600319
Millennium	Westtown	600322
Millennium	Minisink	642498
Millennium	Warwick	600323
Millennium	Buena Vista	629211
Tennessee	Con Ed/TGP Pearl River NY Rockland	20293
Tennessee	Con Ed/TGP Tappan NY Rockland	20201
Transco <sup>21</sup>	Orange Rockland	1006568

<sup>20</sup> Bowline also has a direct connection to Millennium via the Hudson Valley Gas Pipeline.

<sup>21</sup> Transco has not delivered any volumes to Orange & Rockland citygate for several years.



St. Lawrence Gas (Enbridge)

Figure A3-21. St. Lawrence Gas Service Territory

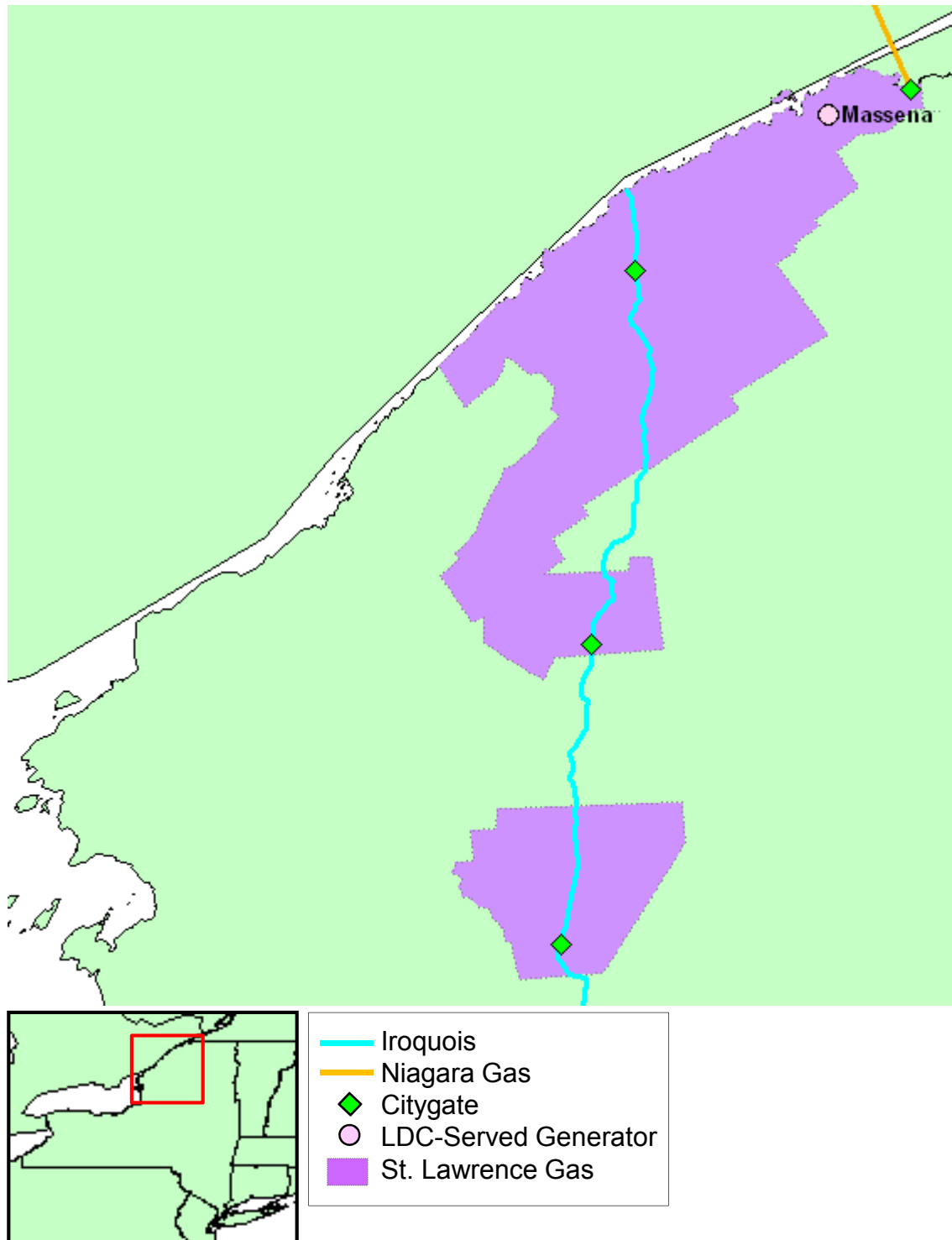


Table A3-28. NYISO Generators Served by St. Lawrence Gas

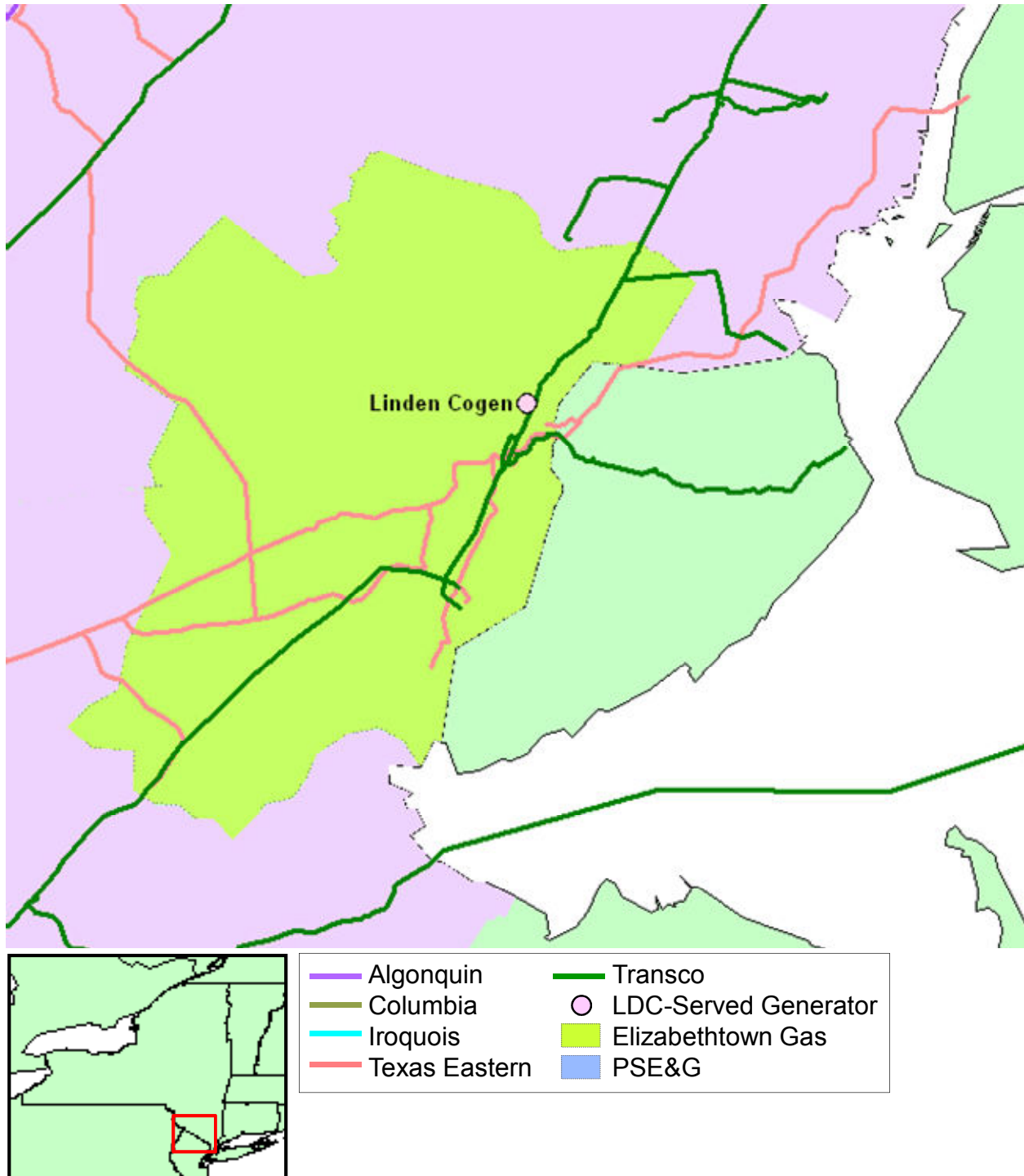
Generator	Capacity (MW)
Beaver Falls	107.8
Massena	102.1

**Table A3-29. St. Lawrence Gas Citygate Meters**

<b>Pipeline</b>	<b>Meter Name</b>	<b>Meter Number</b>
Iroquois	Edwards	110761
Iroquois	Lisbon	68096
Iroquois	New Bremen	147192
Niagara Gas	N/A	N/A

Elizabethtown Gas / Public Service Electric & Gas

Figure A3-22. Linden Cogen Gas Connections



**Table A3-30. NYISO Generators Served by Elizabethtown / PSE&G**

<b>Generator</b>	<b>Capacity (MW)</b>
Linden Cogen <sup>22</sup>	705

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<sup>22</sup> Located in New Jersey but electrically connected to NYISO Zone J (New York City).