



Eastern Interconnection Planning Collaborative

Phase 2 Report:

**Interregional Transmission Development and
Analysis for Three Stakeholder Selected
Scenarios
And
Gas-Electric System Interface Study**

**DOE Award Project
DE-OE0000343**

July 2, 2015

**Volume 5
Appendices to Section 8**

FINAL

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Appendix 8

Gas Infrastructure Serving Generation in PJM

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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: 1,070 MDth/d (Hanover)¹

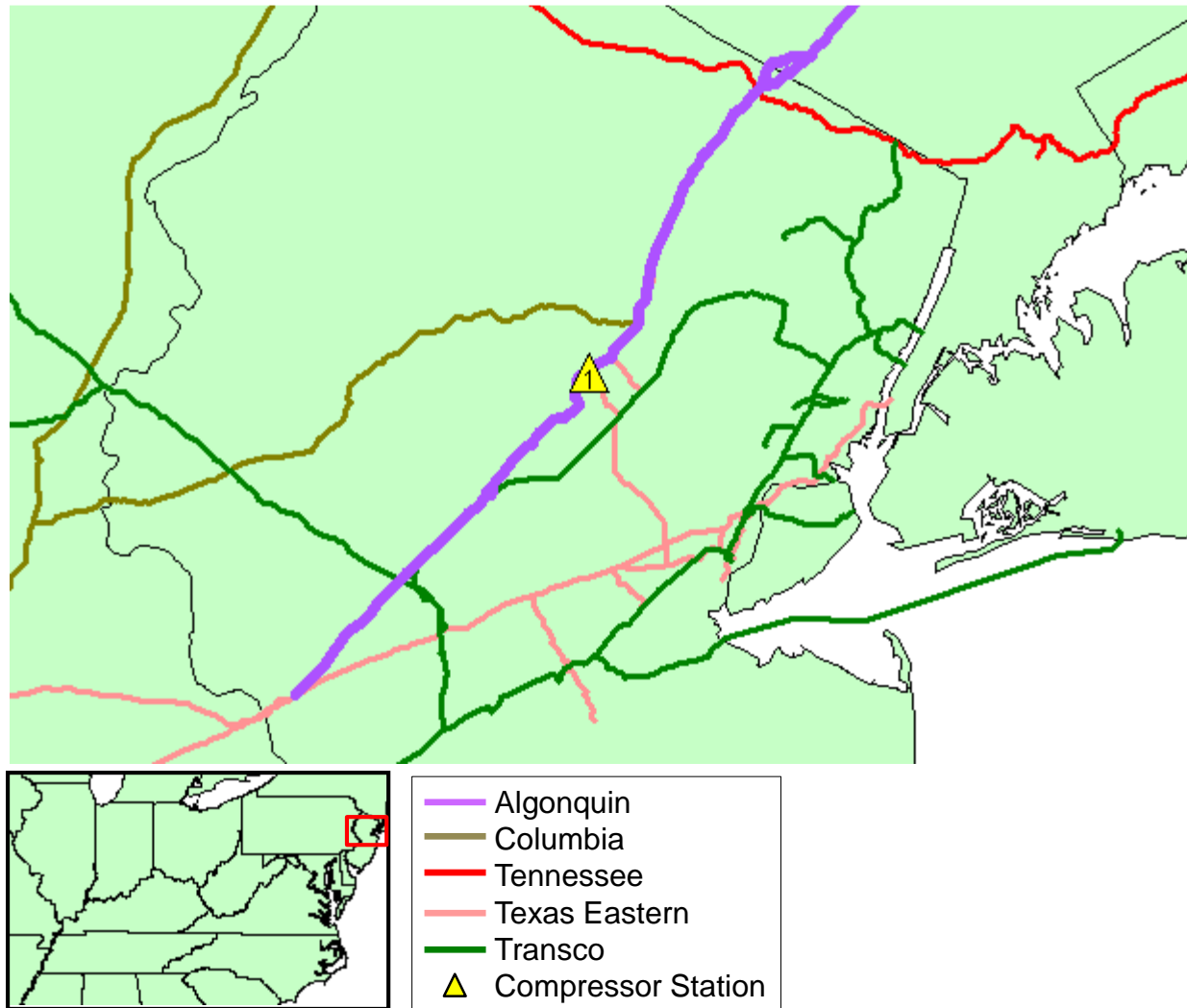


Figure A8-1. Algonquin Facilities in PJM

Table A8-1. Algonquin Compressor Stations in PJM

ID	Name	Location
1	Hanover	Hanover, NJ

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

Alliance Pipeline (Enbridge / Veresen)

Capacity: 2,053 MDth/d

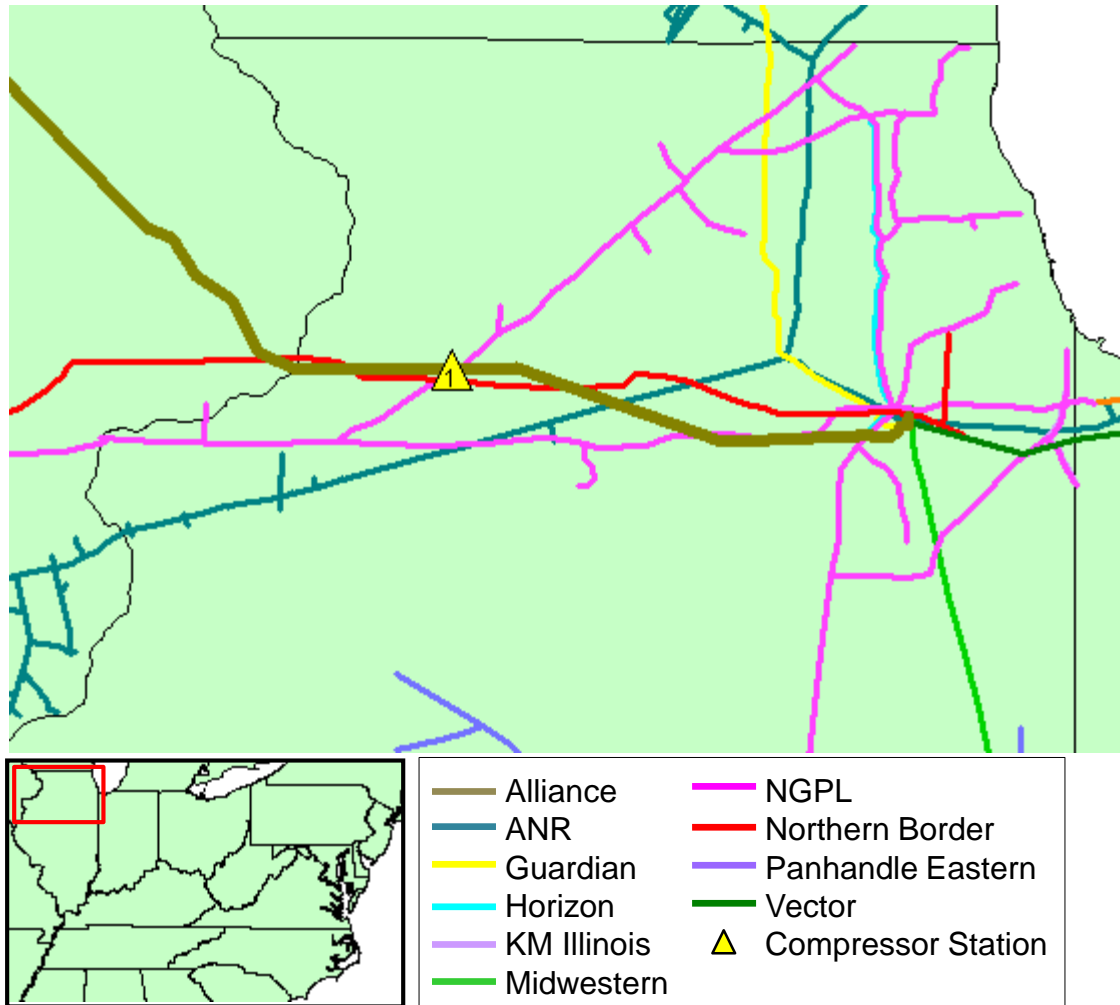


Figure A8-2. Alliance Facilities in PJM

Table A8-2. Alliance Compressor Stations in PJM

ID	Name	Location
1	Tampico (29A)	Tampico, IL

ANR Pipeline (TransCanada)

Capacity: 1,188 MDth/d (Southeast Mainline North of REX), 694 MDth/d (Southwest Mainline)²

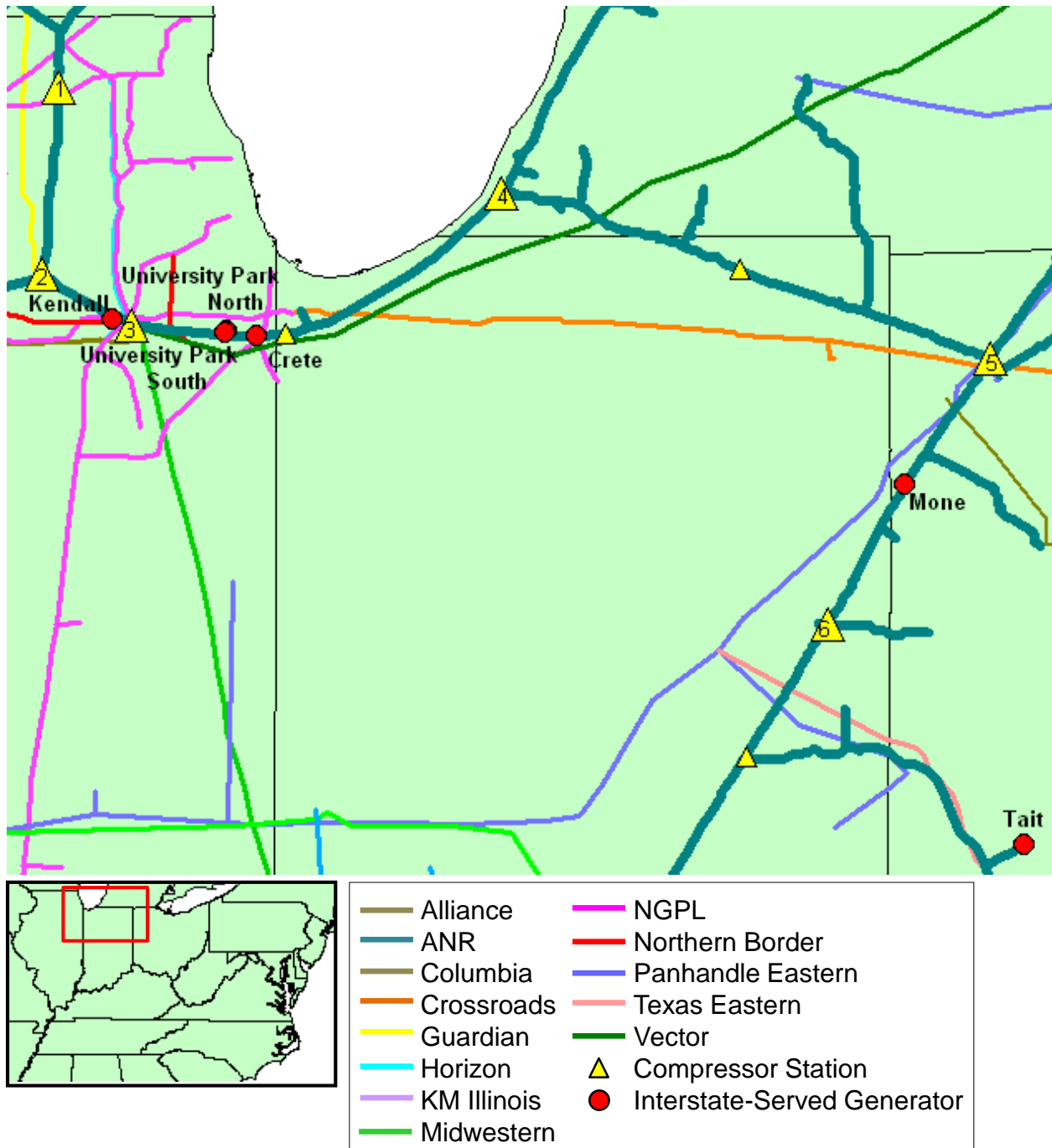


Figure A8-3. ANR Facilities in PJM

² Operationally Available Capacity:
<http://anrebb.transcanada.com/AvailCap/AvailCap.asp?sPipelineCode=ANR>

Table A8-3. PJM Generators Directly Connected to ANR

Generator	Capacity (MW)	Meter Name	Meter Number
Crete ³	356.0	Crete Power Plant	360888
Kendall	1,256.0	Minooka Interconnect	278172
Mone	582.0	Mone Plant Interconnect	314730
Tait ⁴	684.6	Lebanon/Tait-TETCO	295957
University Park North	540.0	Monee Interconnect	282435
University Park South	342.0	PPL University Park Pwr	318733

Table A8-4. ANR Compressor Stations in PJM

ID	Name	Location
1	Woodstock	Woodstock, IL
2	Sandwich	Sandwich, IL
3	Joliet	Joliet, IL
4	Bridgman	Bridgman, MI
5	Defiance	Defiance, OH
6	Portland	Portland, IN

³ Crete also has a direct connection to Vector.

⁴ Tait is also served by Texas Eastern and Vectren Ohio.

Big Sandy Pipeline (Spectra Energy)

Capacity: 171 MMcf/d⁵

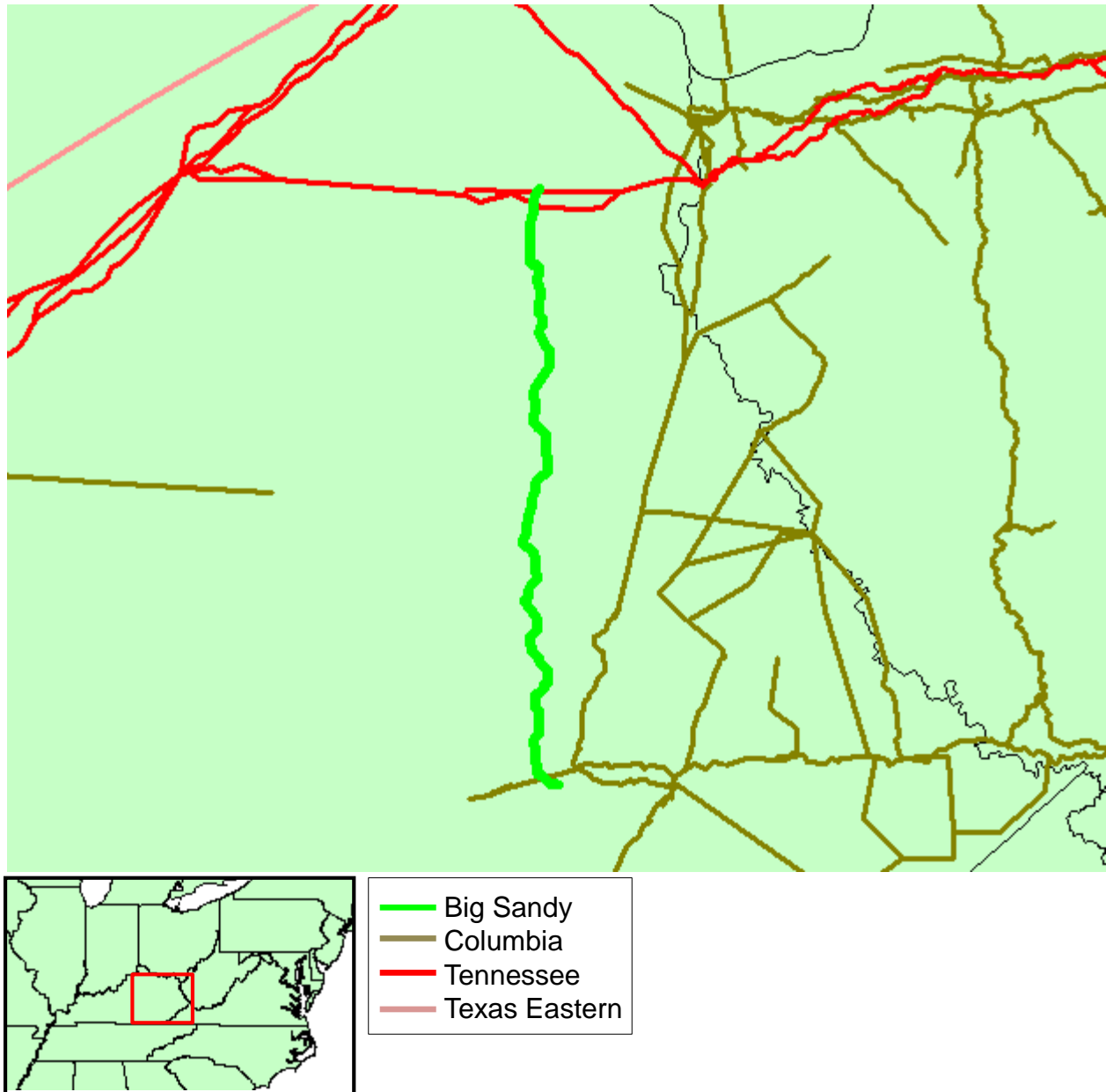


Figure A8-4. Big Sandy Facilities

⁵ Source:

<http://infopost.spectraenergy.com/downloads/Spectra%20Energy%20Partners%20to%20Acquire%20the%20Big%20Sandy%20Pipeline.pdf>

Central New York Oil & Gas (Crestwood Midstream Partners)

Capacity: 1,130 MDth/d (Tennessee interconnection), 776 MDth/d (Transco interconneccion)⁶

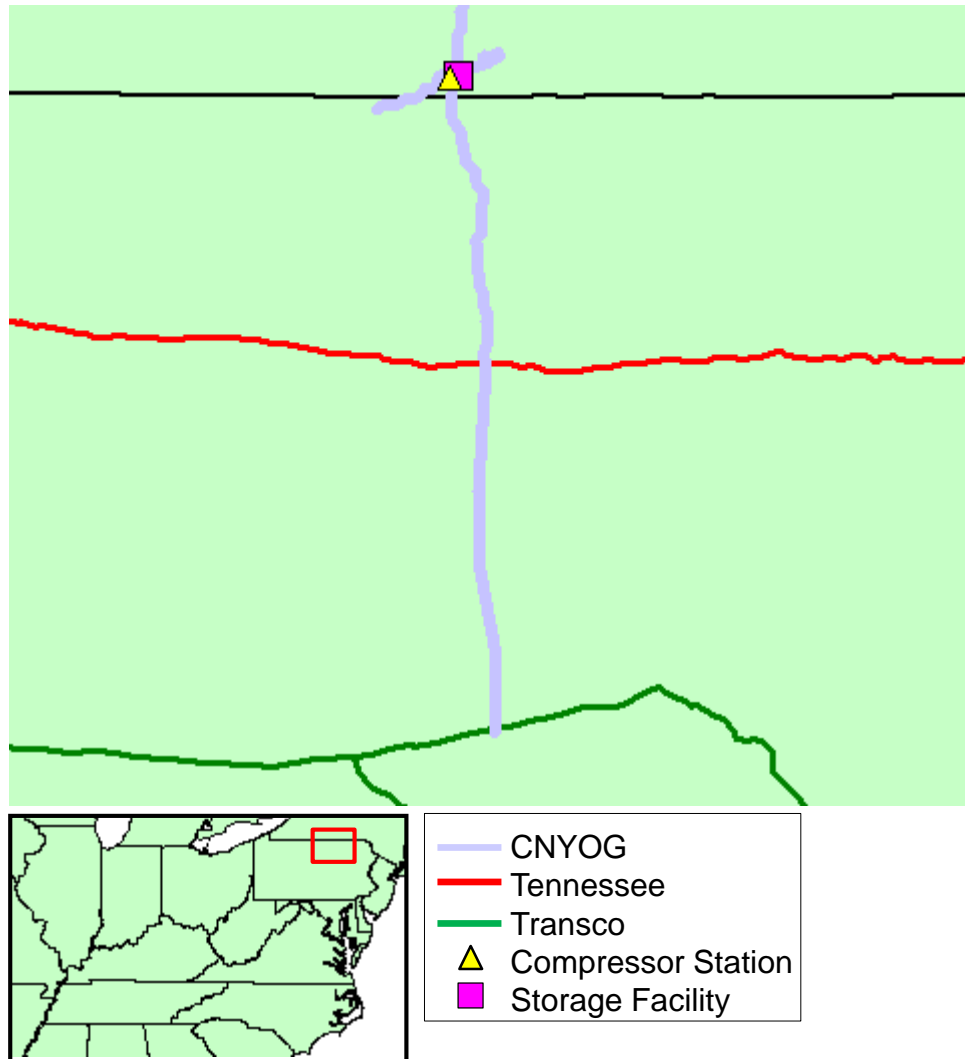


Figure A8-5. Central New York Oil & Gas Facilities in PJM

⁶ Design capacity of meters, from Operationally Available Capacity report:
<http://www.stagecoachstorage.com/oauc.cfm?type=1>

Columbia Gas Transmission (NiSource)

Capacity: 10,000 MDth/d⁷

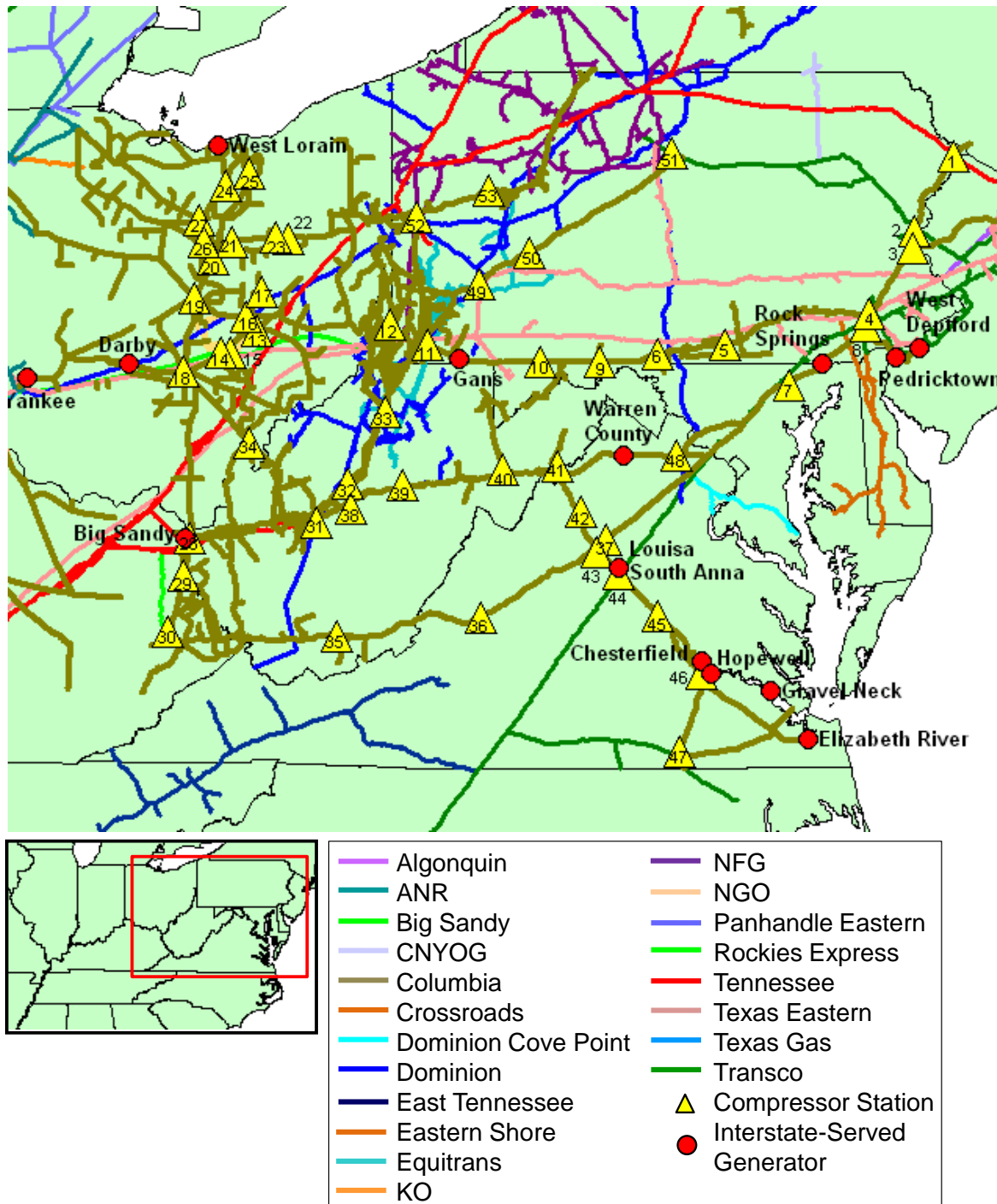


Figure A8-6. Columbia Facilities in PJM

⁷ Total capacity can vary significantly based on operational factors due to the reticulated nature of the pipeline.

Table A8-5. PJM Generators Directly Connected to Columbia Gas

Generator	Capacity (MW)	Meter Name	Meter Number
Big Sandy	342.0	Constellation Big Sandy	836799
Chesterfield ⁸	446.6	Chesterfield Power	831082
Darby	564.0	Columbus Southern Darbyville	737067
Elizabeth River	388.8	COS Calp	833469
Gans	87.6	GAE - AES Lake Lynn	636563
Gravel Neck	407.7	Gravel Neck	831081
Hopewell	399.0	Hopewell Co-Gen	831095
Louisa ⁹	509.1	Red Hill Station	837462
Pedricktown ¹⁰	120.0	Pedricktown	633082
Rock Springs	780	Rock Springs Station Rock Spring Station	637184, 642269
South Anna (Gordonsville) ¹¹	300.4	GELP Columbus 846600	833866
West Deptford ¹²	738.0	West Deptford Energy Station	642577
West Lorain ¹³	555.6	First Energy-West Lorain	736798
Yankee	125.5	DPL Centerville	736626
Warren County ¹⁴	1,329.0	VEPCO	842564

Table A8-6. Columbia Gas Compressor Stations in PJM

ID	Name	Location
1	Milford	Hellertown, PA
2	Easton	Easton, PA
3	Hellertown	Hellertown, PA
4	Eagle	Uwchland, PA
5	Gettysburg	Gettysburg, PA
6	Greencastle	Greencastle, PA
7	Rutledge	Fallston, MD
8	Downingtown	Downingtown, PA
9	Artemas	Artemas, PA
10	Salisbury	Greenville, PA
11	Waynesburg	Waynesburg, PA

⁸ Columbia Gas serves Chesterfield via a dedicated Columbia Gas of Virginia lateral. Chesterfield is also served by a lateral supplied by Dominion via Virginia Natural Gas.

⁹ Columbia Gas serves Louisa via a dedicated Columbia Gas of Virginia lateral.

¹⁰ Columbia Gas serves Pedricktown via a dedicated South Jersey Gas lateral.

¹¹ Columbia Gas serves Gordonsville via a dedicated Columbia Gas of Virginia lateral.

¹² West Deptford is currently under construction. The expected in-service date is June 2014.

¹³ Columbia Gas serves West Lorain via a dedicated Northeast Ohio Natural Gas lateral.

¹⁴ Warren County is currently under construction. The expected in-service date is late 2014 or early 2015.

ID	Name	Location
12	Donegal	Claysville, PA
13	Cambridge	Adamsville, OH
14	Perry	Roseville, OH
15	Crooksville	Roseville, OH
16	Adamsville	Adamsville, OH
17	Guernsey	Cambridge, OH
18	Crawford	Sugar Grove, OH
19	Treat	Homer, OH
20	Weaver	Lucas, OH
21	Holmes	Lakeville, OH
22	Paint	Lakeville, OH
23	Holmesville	Lakeville, OH
24	Wellington	Wellington, OH
25	Medina	Medina, OH
26	Lucas	Perrysville, OH
27	Pavonia	Pavonia, OH
28	Ceredo	Huntington, WV
29	Walridge	Louisa, KY
30	Mudd Creek	Prestonsburg, KY
31	Cobb	Clendenin, WV
32	Frametown	Frametown, WV
33	Smithfield	Smithfield, WV
34	Rockport	Rockport, WV
35	Flat Top	Flat Top, WV
36	Gala	Eagle Rock, VA
37	Bickers	Stanardsville, VA
38	Clendenin	Clendenin, WV
39	Cleveland	Kanawha Head, WV
40	Seneca	Seneca Rocks, WV
41	Lost River	Mathias, WV
42	Shenandoah	Shenandoah, VA
43	Boswells Tavern	Boswells Tavern, VA
44	Louisa	Louisa, VA
45	Goochland	Goochland, VA
46	Petersburg	Prince George, VA
47	Emporia	Greensville, VA
48	Loudoun	Leesburg, VA
49	Delmont	Delmont, PA
50	Kent	Kent, PA
51	Renovo	North Bend, PA
52	Ellwood City	Ellwood City, PA
53	Rimersburg	Rimersburg, PA

Crossroads Pipeline (NiSource)

Capacity: 225 MDth/d

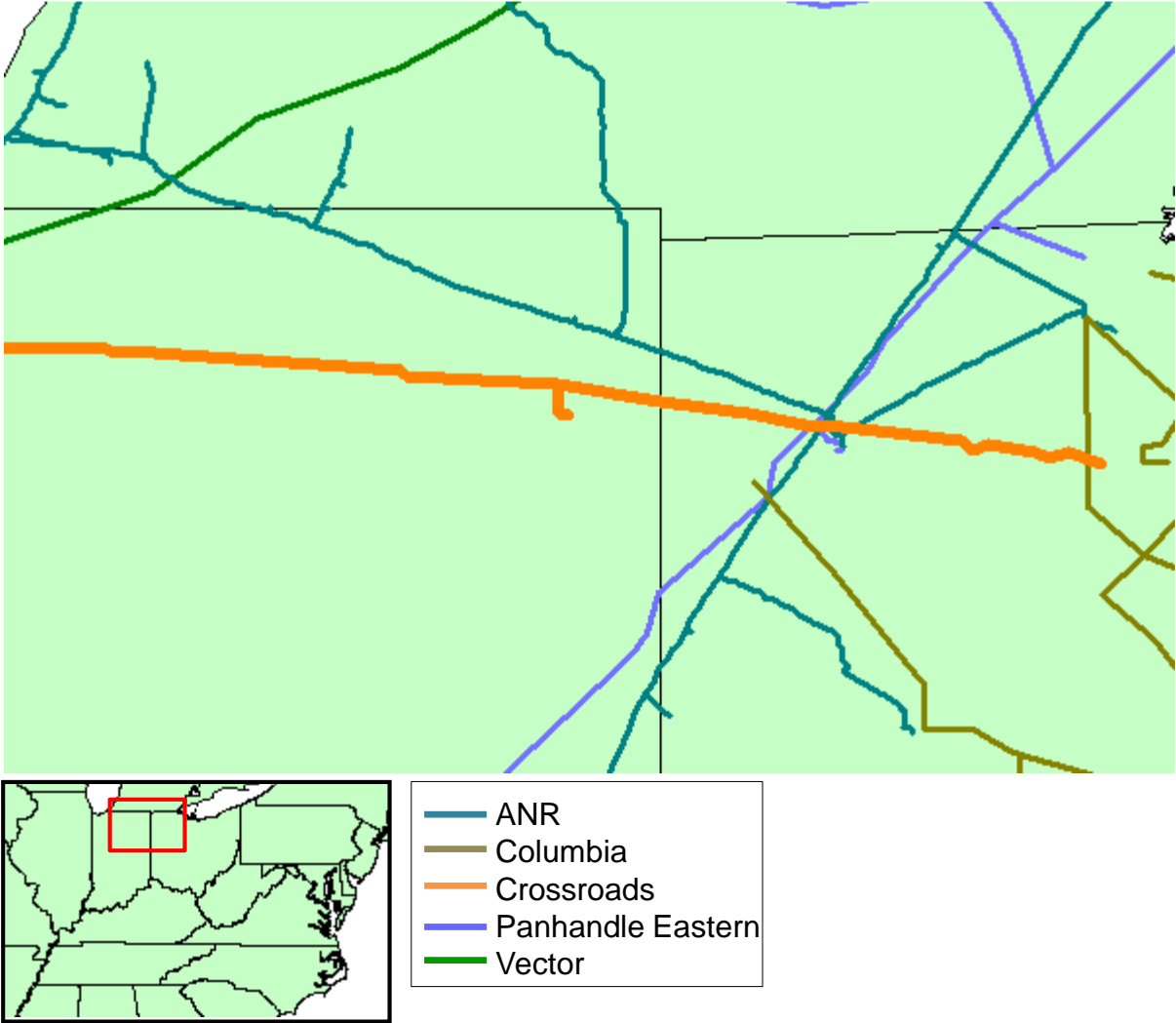


Figure A8-7. Crossroads Facilities in PJM

Dominion Transmission (Dominion Resources)

Capacity: 6,450 MMcf/d¹⁵

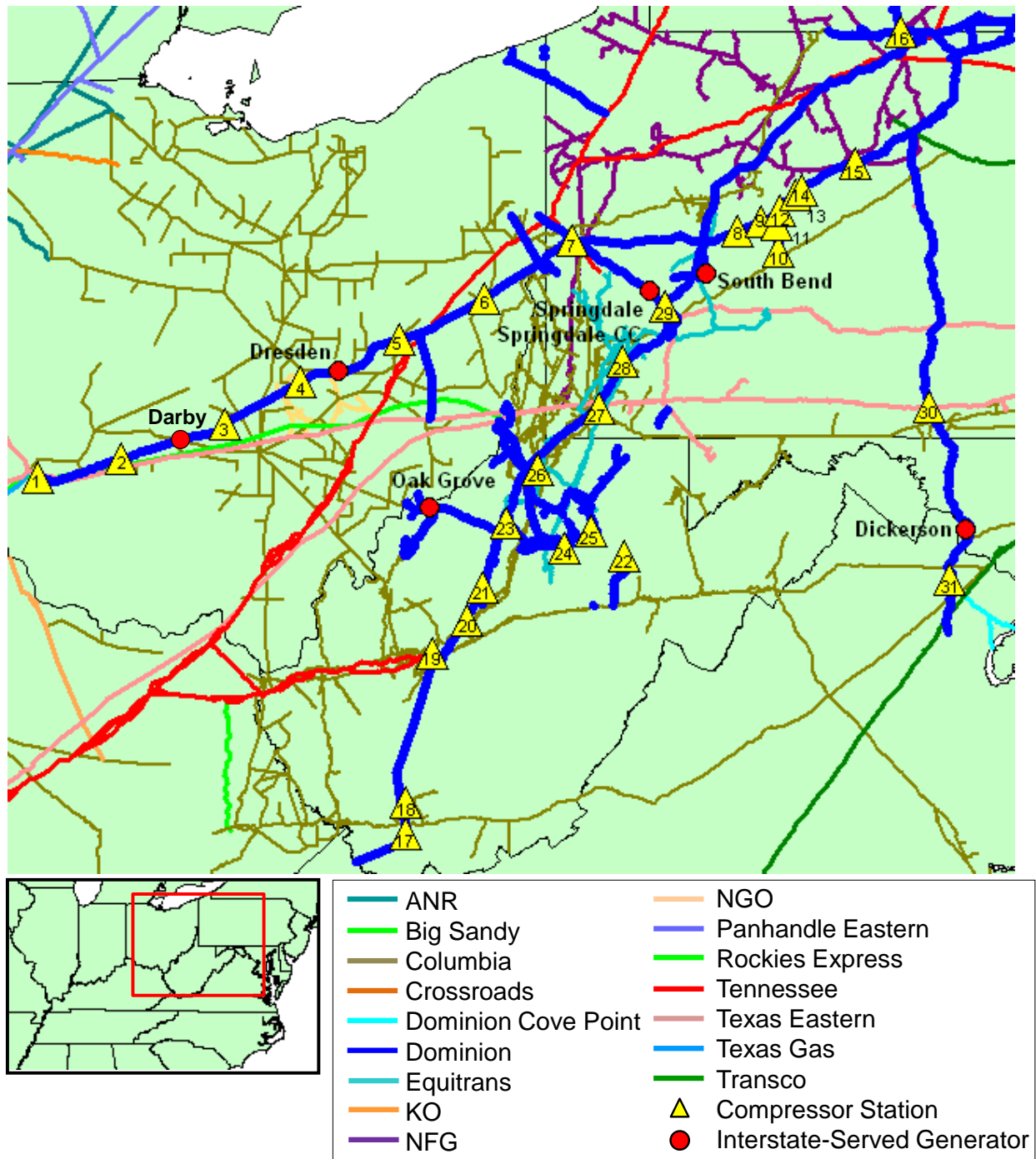


Figure A8-8. Dominion Facilities in PJM

¹⁵ Represents peak day throughput during the 2013-14 heating season.

Table A8-7. PJM Generators Directly Connected to Dominion

Generator	Capacity (MW)	Meter Name	Meter Number
Darby	564.0	Columbus Southern – Darby Station	30160
Dickerson	326.0	GenOn Mid-Atlantic (Dickerson)	30016
Dresden	678.3	Dresden	30080
Oak Grove	344.0	Pleasants Energy	30050
South Bend	688.0	Armstrong Energy	30060
Springdale	87.6	Allegheny Energy - Springdale	30040
Springdale CC	556.0	Allegheny Energy - Springdale	30040

Table A8-8. Dominion Compressor Stations in PJM

ID	Name	Location
1	Lebanon	Lebanon, OH
2	Washington	Washington Court House, OH
3	Groveport	Groveport, OH
4	Newark	Nashport, OH
5	Gilmore	Port Washington, OH
6	Carroll	Carrollton, OH
7	Beaver	North Sewickley Twp, PA
8	Rochester Mills	Punxsutawney, PA
9	Punxsutawney	Punxsutawney, PA
10	Cherry Tree	Cherry Tree, PA
11	Stoney Run	Big Run, PA
12	Big Run	Big Run, PA
13	Helvetia	Luthersburg, PA
14	Luther	Luthersburg, PA
15	Ardell	Weedville, PA
16	State Line	Genesee, PA
17	Oscar Nelson	Brenton, WV
18	Loup Creek	Kopperston, WV
19	Cornwell	Clendenin, WV
20	Orma	Orma, WV
21	Jones	Lockney, WV
22	Coronado	Belington, WV
23	LL Tonkin	West Union, WV
24	Camden	Weston, WV
25	Pepper	Philippi, WV
26	Hastings	Pine Grove, WV
27	Crayne	Waynesburg, PA
28	Hutchinson	Elizabeth, PA
29	JB Tonkin	Murraysville, PA
30	Chambersburg	Chambersburg, PA
31	Leesburg	Leesburg, VA

Dominion Cove Point (Dominion Resources)

Capacity: 1,800 MDth/d

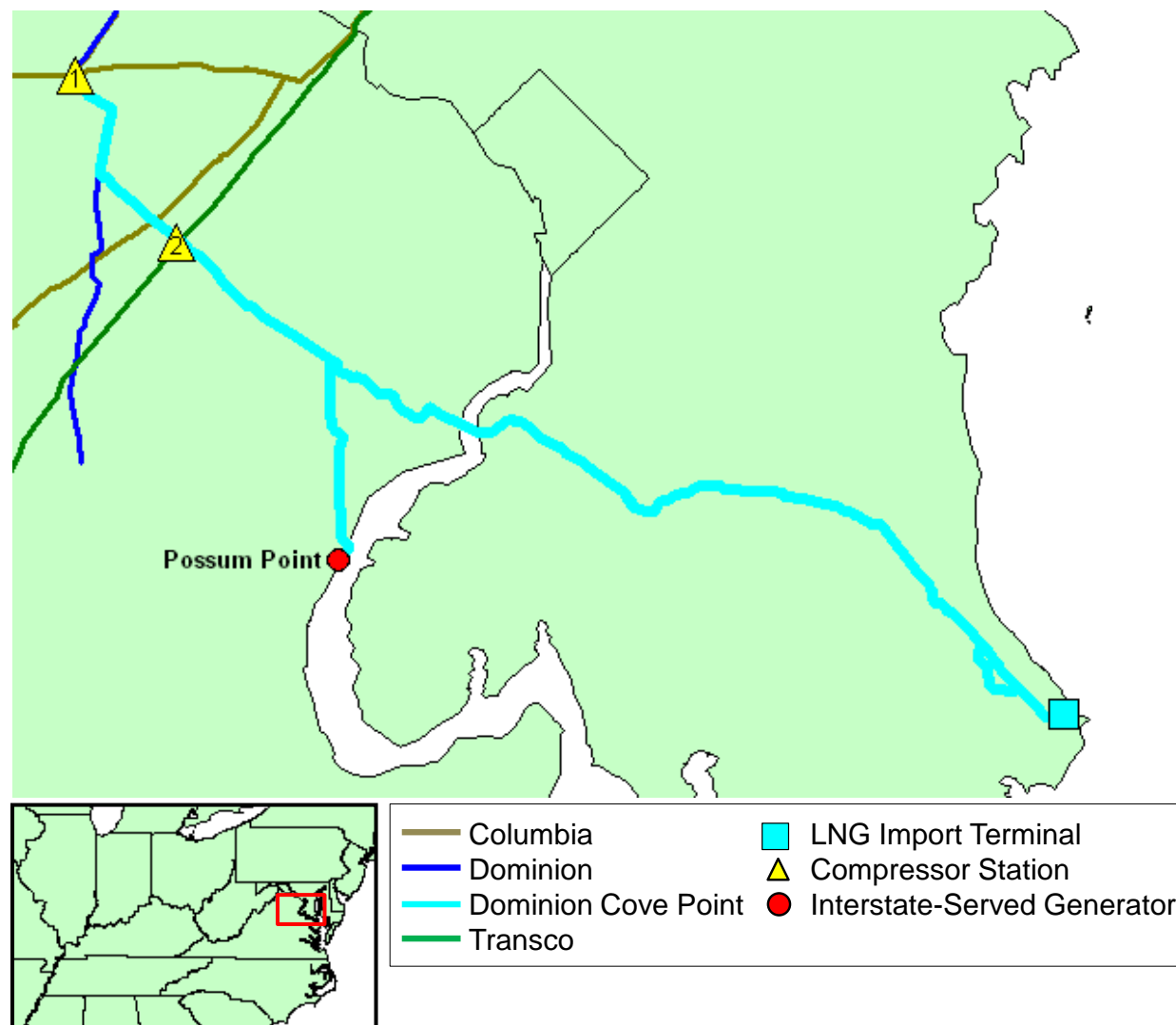


Figure A8-9. Dominion Cove Point Facilities

Table A8-9. PJM Generators Directly Connected to Dominion Cove Point

Generator	Capacity (MW)	Meter Name	Meter Number
Possum Point	965.9	Possum Point Plant	97000

Table A8-10. Dominion Cove Point Compressor Stations

ID	Name	Location
1	Loudoun	Loudoun, VA
2	Pleasant Valley	Pleasant Valley, VA

Dominion Cove Point received permission from the Department of Energy (DOE) to export LNG to countries which have a Free Trade Agreement (FTA) with the United States on October

7, 2011. DOE approved exports of up to 7.82 million metric tonnes per annum (MTPA), equivalent to 1 Bcf/day. On September 11, 2013, DOE approved Cove Point's application to export natural gas to non-FTA nations up to an export quantity of 281 Bcf/year, equivalent to 0.77 Bcf/day.¹⁶ Existing facilities, including LNG storage tanks, docks for tanker loading and unloading, and pipeline lateral (which is already bidirectional) will be utilized for the export project. DOE approval is only part of the permitting process for the project; FERC approval is required for construction of the liquefaction facilities. Dominion initiated the FERC pre-filing process on June 1, 2012 and submitted its certificate application on April 1, 2013. FERC is currently conducting its Environmental Assessment of the project. Dominion's most recent Monthly Permit Table Update filing anticipates that Cove Point will receive certification by the end of February, but their web site lists 1H 2014 as a less ambitious target.¹⁷ Dominion is targeting a March 2017 in-service date for lateral upgrades associated with the project and a June 2017 in-service date for the liquefaction facilities.¹⁸ State representatives, Maryland gubernatorial candidates, and several environmental groups including the Sierra Club are pushing for a more thorough review with an Environmental Impact Study, which would likely delay the project. Such a practice would be against FERC precedent, as the project is within the footprint of the existing import facilities. It is unclear whether these efforts, in addition to a legacy agreement that the facility's prior owner signed with environmental groups, will delay or endanger the project.¹⁹

¹⁶ See

<http://energy.gov/sites/prod/files/2014/02/f8/Summary%20of%20LNG%20Export%20Applications.pdf>

¹⁷ FERC docket CP13-113

¹⁸ See <https://www.dom.com/business/gas-transmission/cove-point/index.jsp>,

¹⁹ Platts Gas Daily, "Cove Point LNG Critics Push for Tougher Review." January 22, 2014.

East Tennessee (Spectra Energy)

Capacity: 218 MDth/d (Glade Spring)²⁰

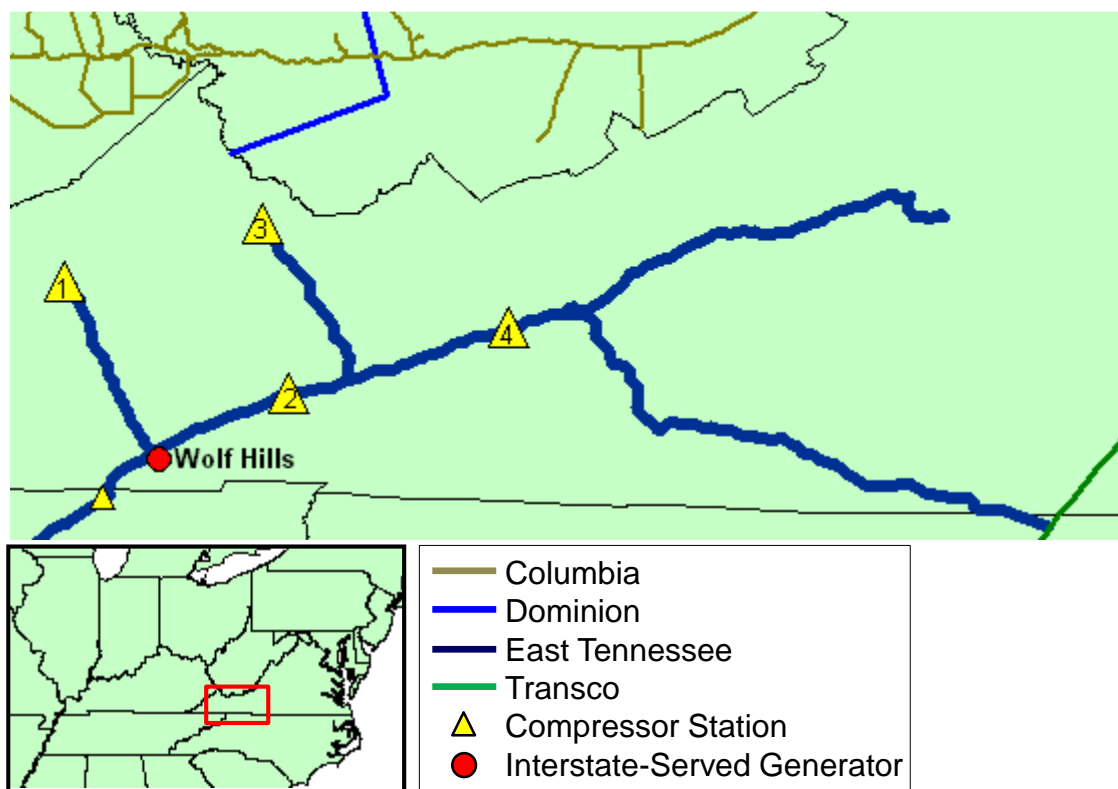


Figure A8-10. East Tennessee Facilities in PJM

Table A8-11. PJM Generators Directly Connected to East Tennessee

Generator	Capacity (MW)	Meter Name	Meter Number
Wolf Hills ²¹	285.0	United Cities - Wolf Hills Power Plant	59192

Table A8-12. East Tennessee Compressor Stations in PJM

ID	Name	Location
1	Nora	Nora, VA
2	Glade Spring	Glade Spring, VA
3	Jewell Ridge	Jewell Ridge, VA
4	Rural Retreat	Rural Retreat, VA

²⁰ Operationally Available Capacity – Operational Capacity Map:
<https://rtba.spectraenergy.com/InformationalPosting/Default.aspx?bu=ET&Type=OA>

²¹ East Tennessee serves Wolf Hills via a dedicated Atmos Energy lateral.

Eastern Shore (Chesapeake Utilities)

Capacity: 234 MDth/d

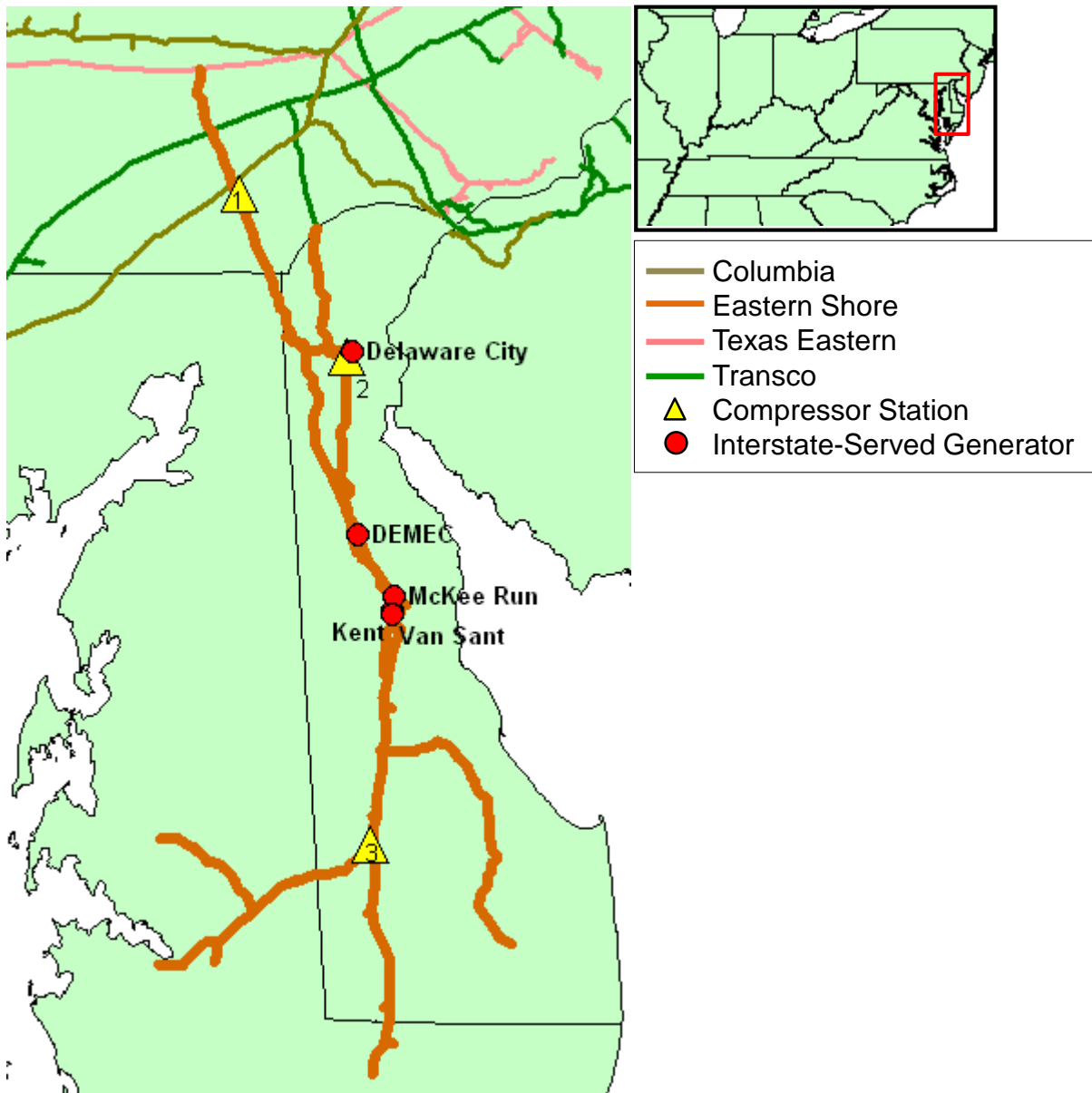


Figure A8-11. Eastern Shore Facilities in PJM

Table A8-13. PJM Generators Directly Connected to Eastern Shore²²

Generator	Capacity (MW)	Meter Name	Meter Number
Delaware City	195.7	N/A	N/A
DEMEC (W F Beasley)	50.0	N/A	N/A
Kent	100.0	N/A	N/A
McKee Run	151.2	N/A	N/A
Van Sant	37.4	N/A	N/A

Table A8-14. Eastern Shore Compressor Stations in PJM

ID	Name	Location
1	Daleville	Cochranville, PA
2	Delaware City	Delaware City, DE
3	Bridgeville	Bridgeville, DE

²² Eastern Shore publishes limited meter-identifying information on its EBB.

Equitrans (EQT Midstream Partners)

Capacity: 2,153 MDth/d²³

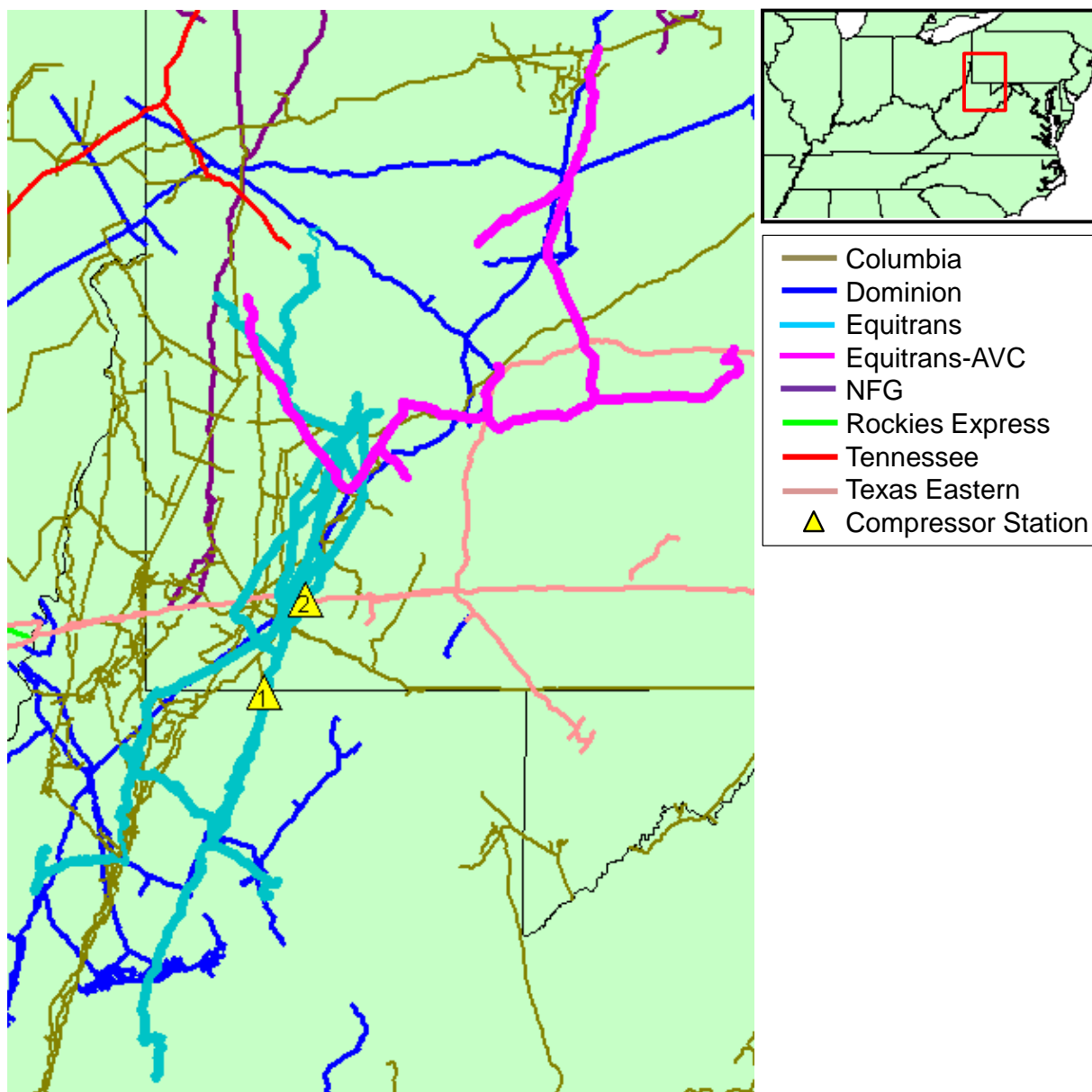


Figure A8-12. Equitrans Facilities

Table A8-15. Equitrans Compressor Stations in PJM

ID	Name	Location
1	Blacksville	Pittsburgh, WV
2	Jefferson	Jefferson, PA

²³ In December 2013 Equitrans leased the Allegheny Valley Connector facilities, which have a transportation capacity of 452 MDth/d, from Allegheny Valley Connector, LLC.

Guardian Pipeline (ONEOK)

Capacity: 1,287 MMcf/d

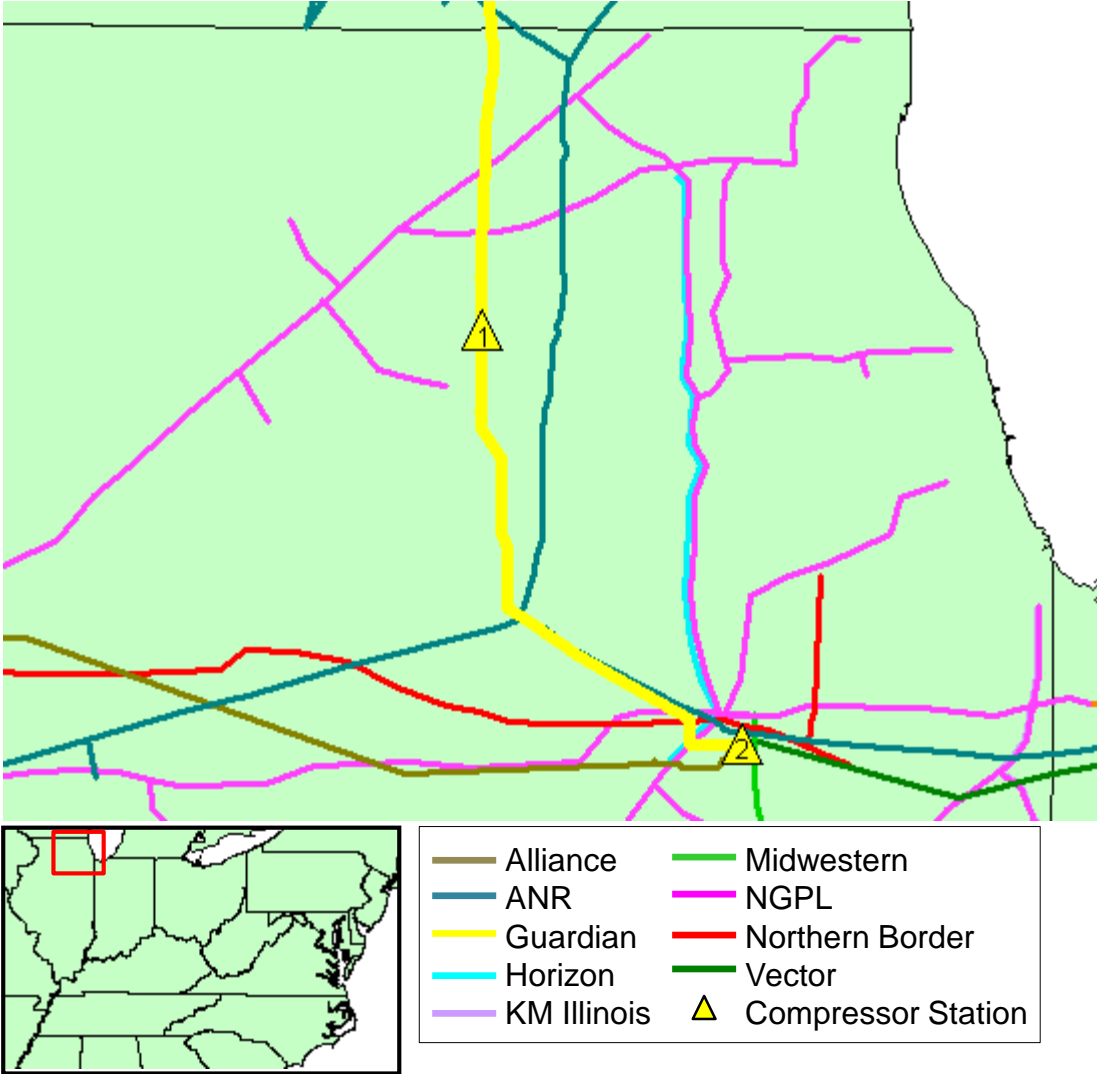


Figure A8-13. Guardian Facilities in PJM

Table A8-16. Guardian Compressor Stations in PJM

ID	Name	Location
1	Sycamore	Sycamore, IL
2	Guardian	Joliet, IL

Horizon Pipeline (NGPL / Nicor-Horizon)

Capacity: 380 MDth/d

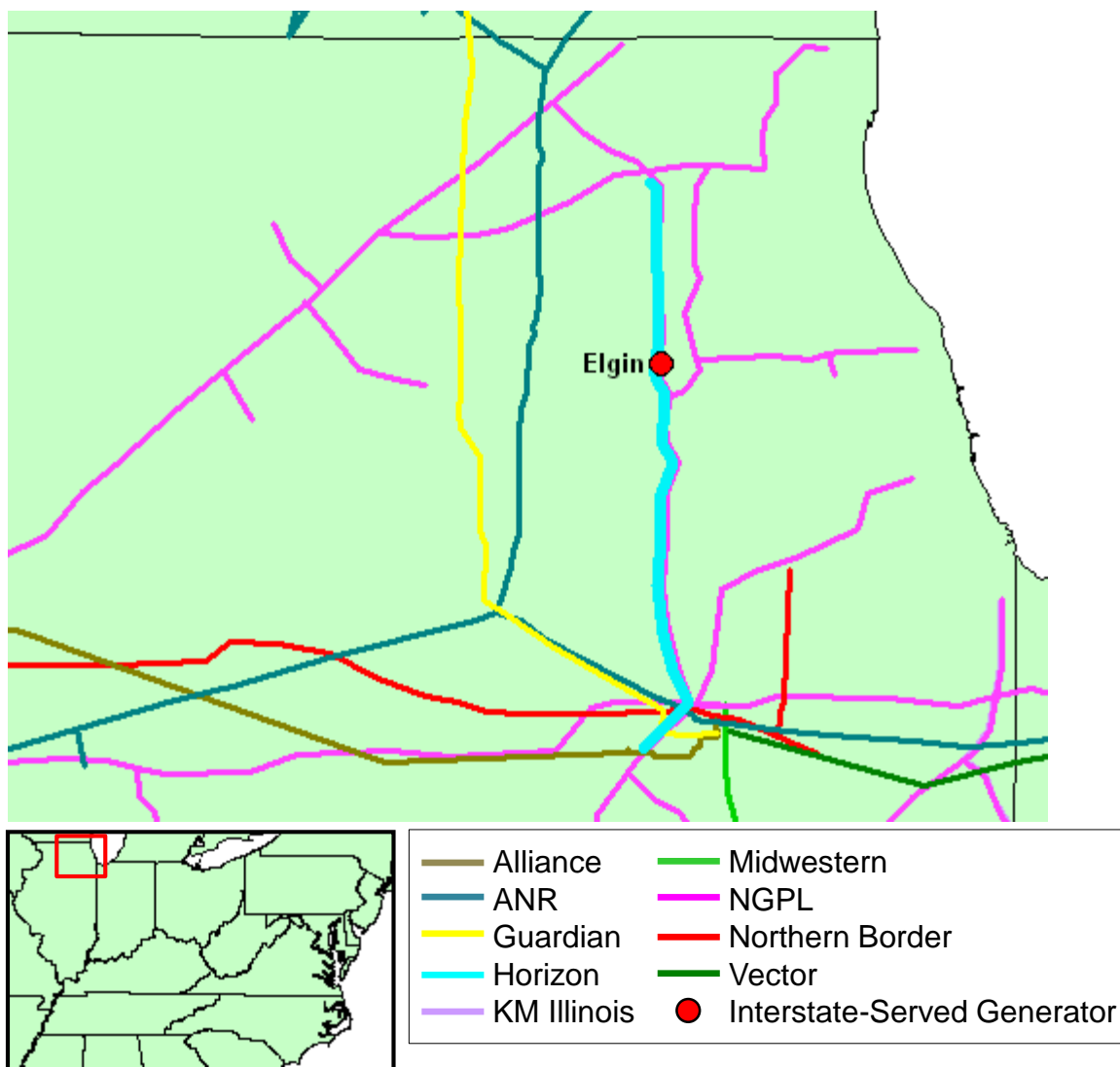


Figure A8-14. Horizon Facilities

Table A8-17. PJM Generators Directly Connected to Horizon

Generator	Capacity (MW)	Meter Name	Meter Number
Elgin	540.0	AEGC /Horizon Tolling Unit	41530

Kinder Morgan Illinois (NGPL)

Capacity: 360 MDth/d

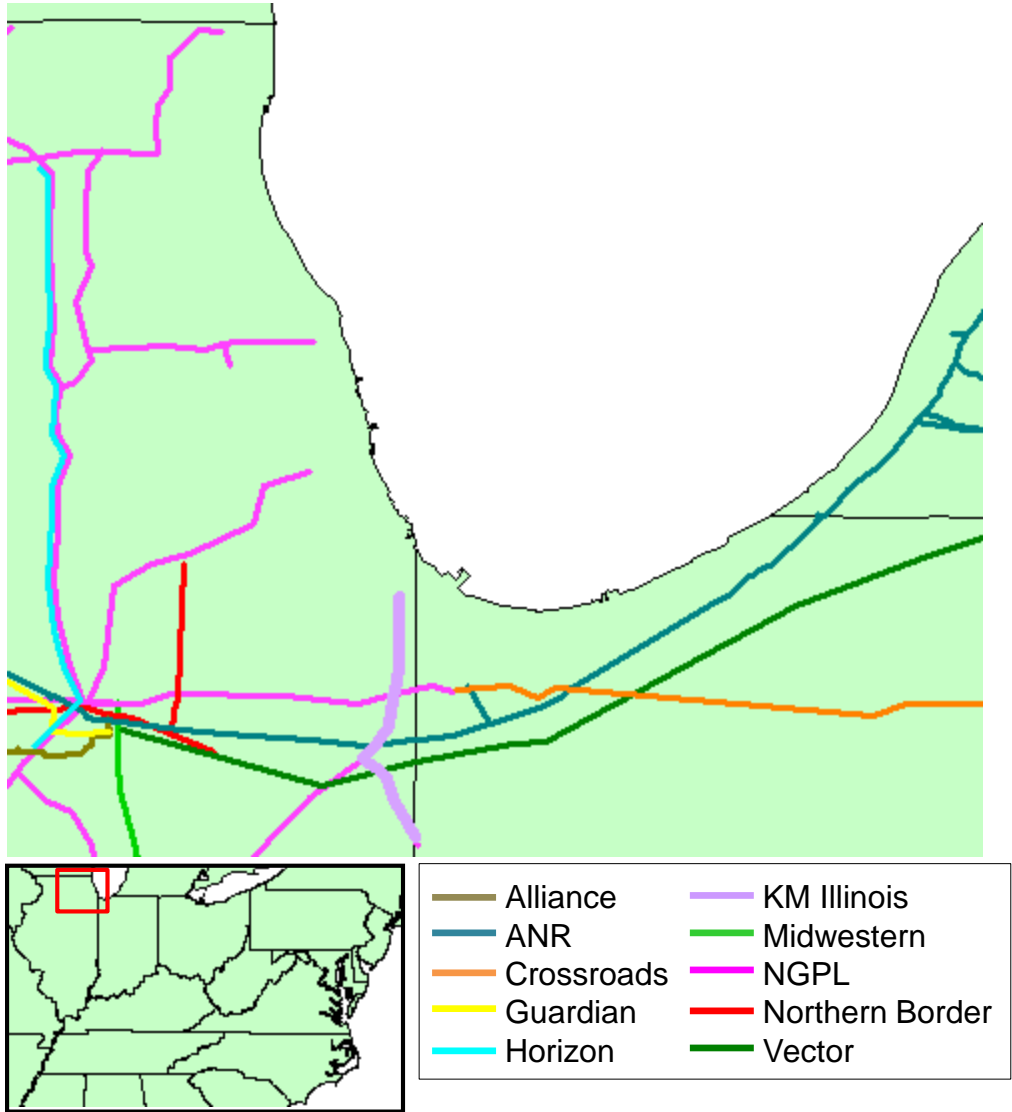


Figure A8-15. Kinder Morgan Illinois Facilities

KO Transmission (Duke Energy / Columbia Gas)

Capacity: 356 MDth/d

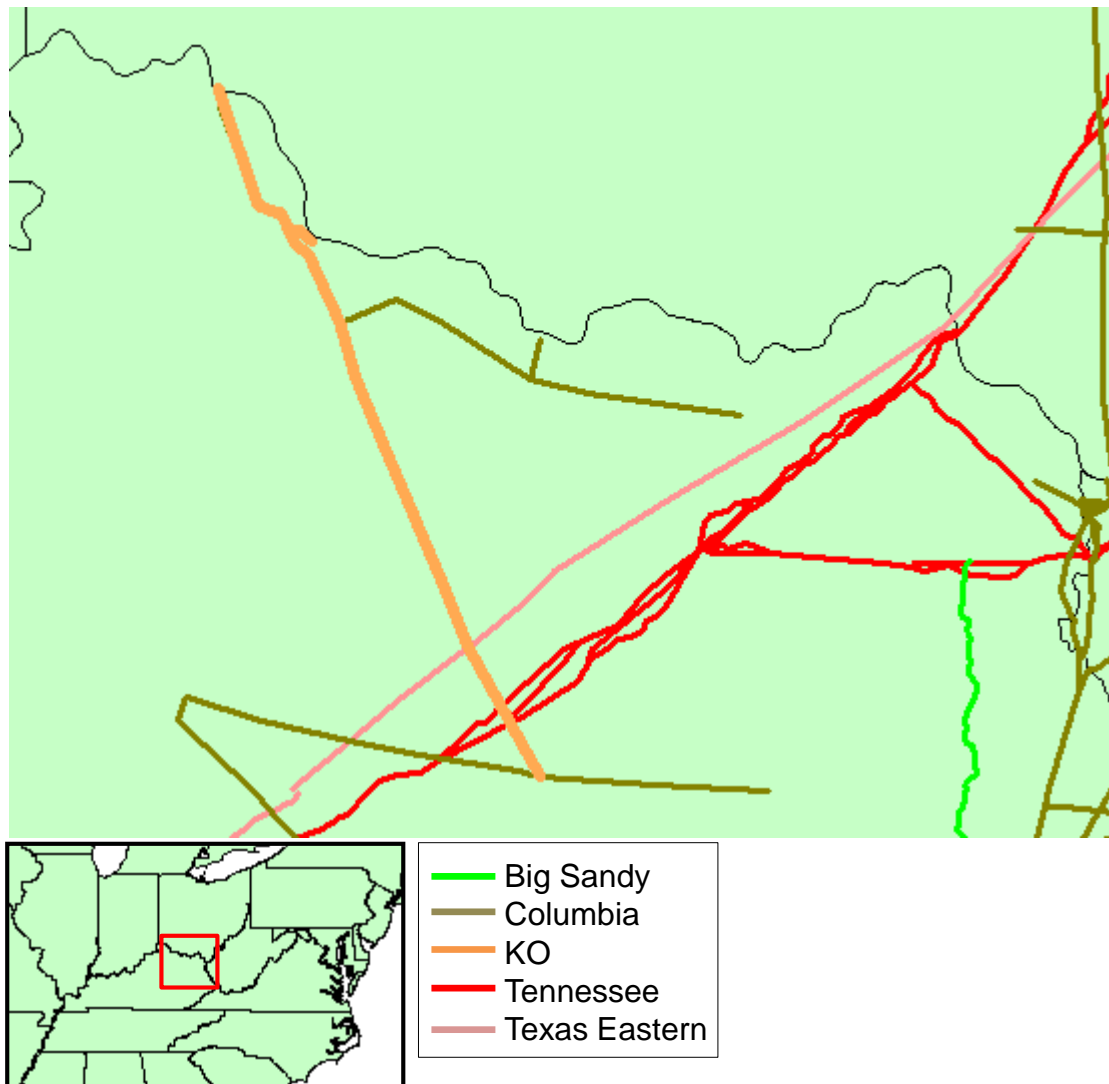


Figure A8-16. KO Facilities

Midwestern Gas Transmission (ONEOK)

Capacity: 513 MMcf/d (south to north) / 635 MMcf/d (north to south)

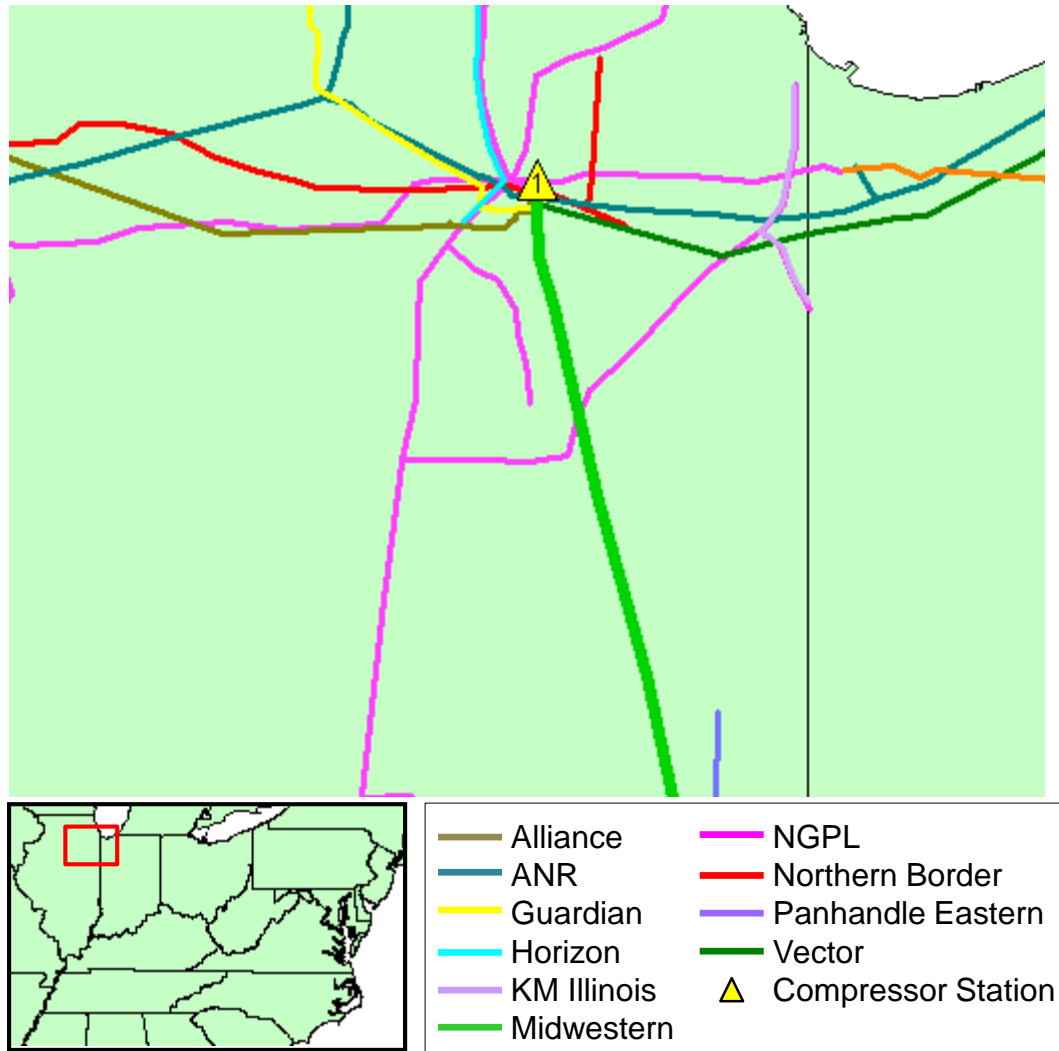


Figure A8-17. Midwestern Gas Facilities in PJM

Table A8-18. Midwestern Compressor Stations in PJM

ID	Name	Location
1	Channahon (2125)	Channahon, IL

National Fuel Gas Supply Corporation (National Fuel Gas Company)

Capacity: 2,764 MDth/d

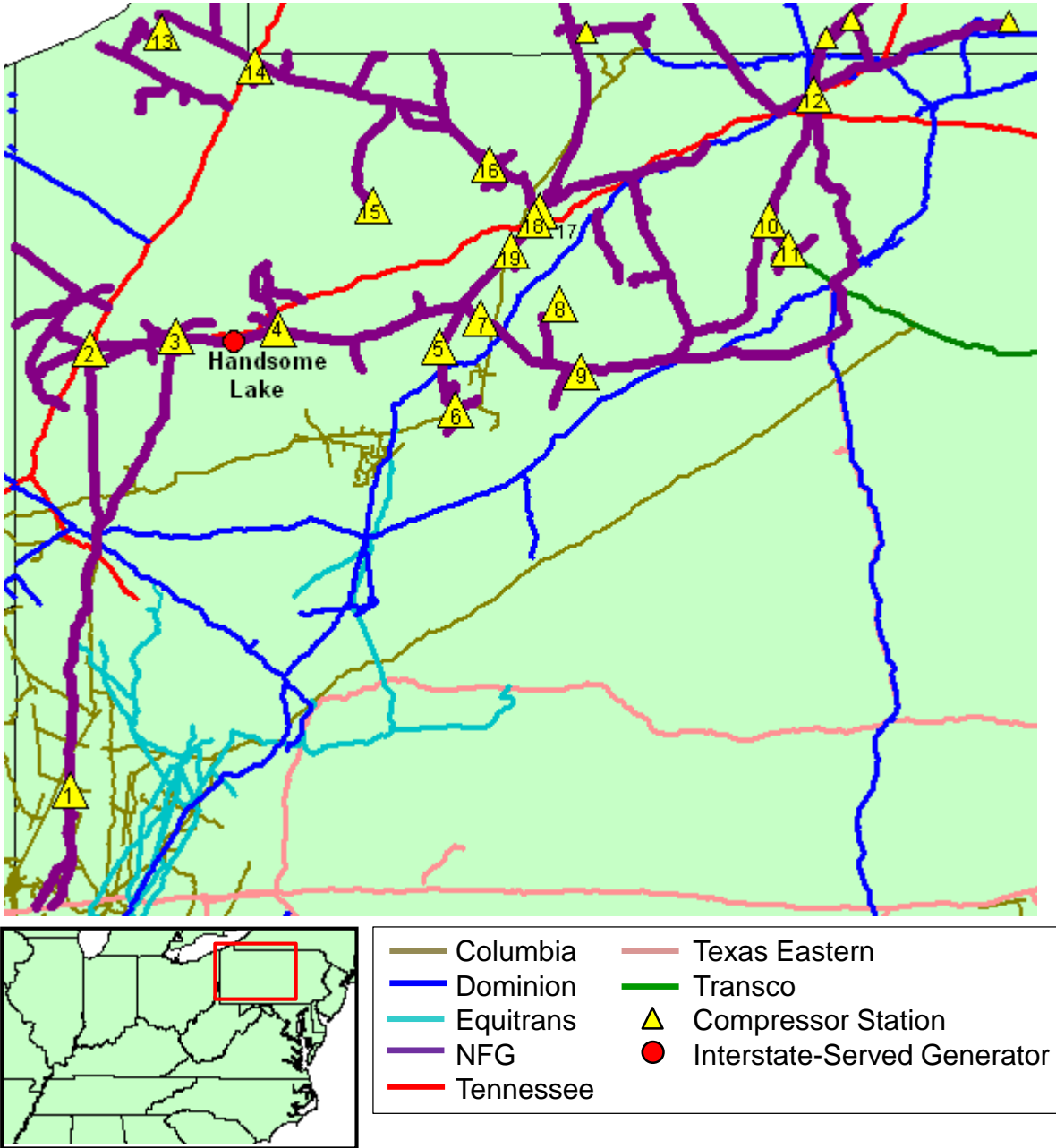


Figure A8-18. NFG Facilities in PJM

Table A8-19. PJM Generators Directly Connected to NFG

Generator	Capacity (MW)	Meter Name	Meter Number
Handsome Lake	285.0	HL - Handsome Lake Power	HLPWR

Table A8-20. NFG Compressor Stations in PJM

ID	Name	Location
1	Buffalo	Washington, PA
2	Mercer	Mercer, PA
3	Henderson	Stoneboro, PA
4	Van	Cranberry, PA
5	Eldred	Sigel, PA
6	Knox	Brookville, PA
7	Heath	Sigel, PA
8	Island Run	Ridgway, PA
9	Boone Mountain	Dubois, PA
10	Costello	Austin, PA
11	East Fork	Austin, PA
12	Ellisburg	Genesee, PA
13	Summit	Erie, PA
14	Corry	Corry, PA
15	Queen	East Hickory, PA
16	Roystone	Sheffield, PA
17	Lamont	Kane, PA
18	Lamont	Kane, PA
19	Sackett	James City, PA

Natural Gas Pipeline Company of America (Kinder Morgan / Myria Acquisition)

Capacity: 4,491 MDth/d

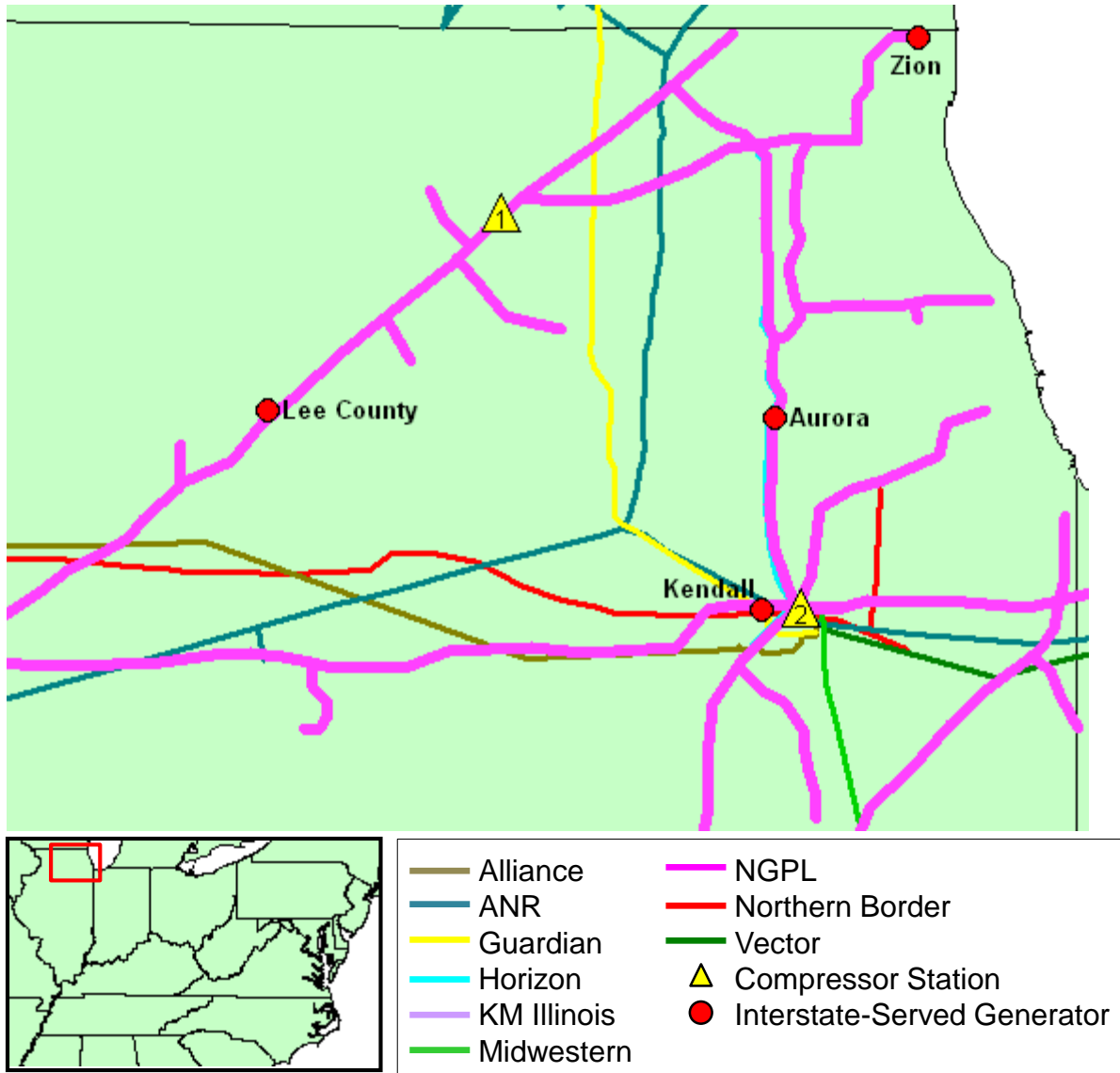


Figure A8-19. NGPL Facilities in PJM

Table A8-21. PJM Generators Directly Connected to NGPL

Generator	Capacity (MW)	Meter Name	Meter Number
Aurora	1,275.0	GenOn/NGPL Aurora Du Page	37435
		Dynegy/NGPL NRG LSP-Kendall Kendall	40057
Kendall	1,256.0	TMI/NGPL NRG LSP-Kendall Pwr Plt Ke	40058
		NRG/NGPL LSP-Kendall Pwr Plt Kendal	40059
Lee County	814.4	Duke Ohi/NGPL Power Plant Lee	37329
Zion	596.7	Calpine/NGPL Zion Energy Lake	40257

Table A8-22. NGPL Compressor Stations in PJM

ID	Name	Location
1	Station 116	Belvidere, IL
2	Station 113	Shorewood, IL

Northern Border Pipeline (TransCanada / ONEOK)

Capacity: 2,574 MDth/d

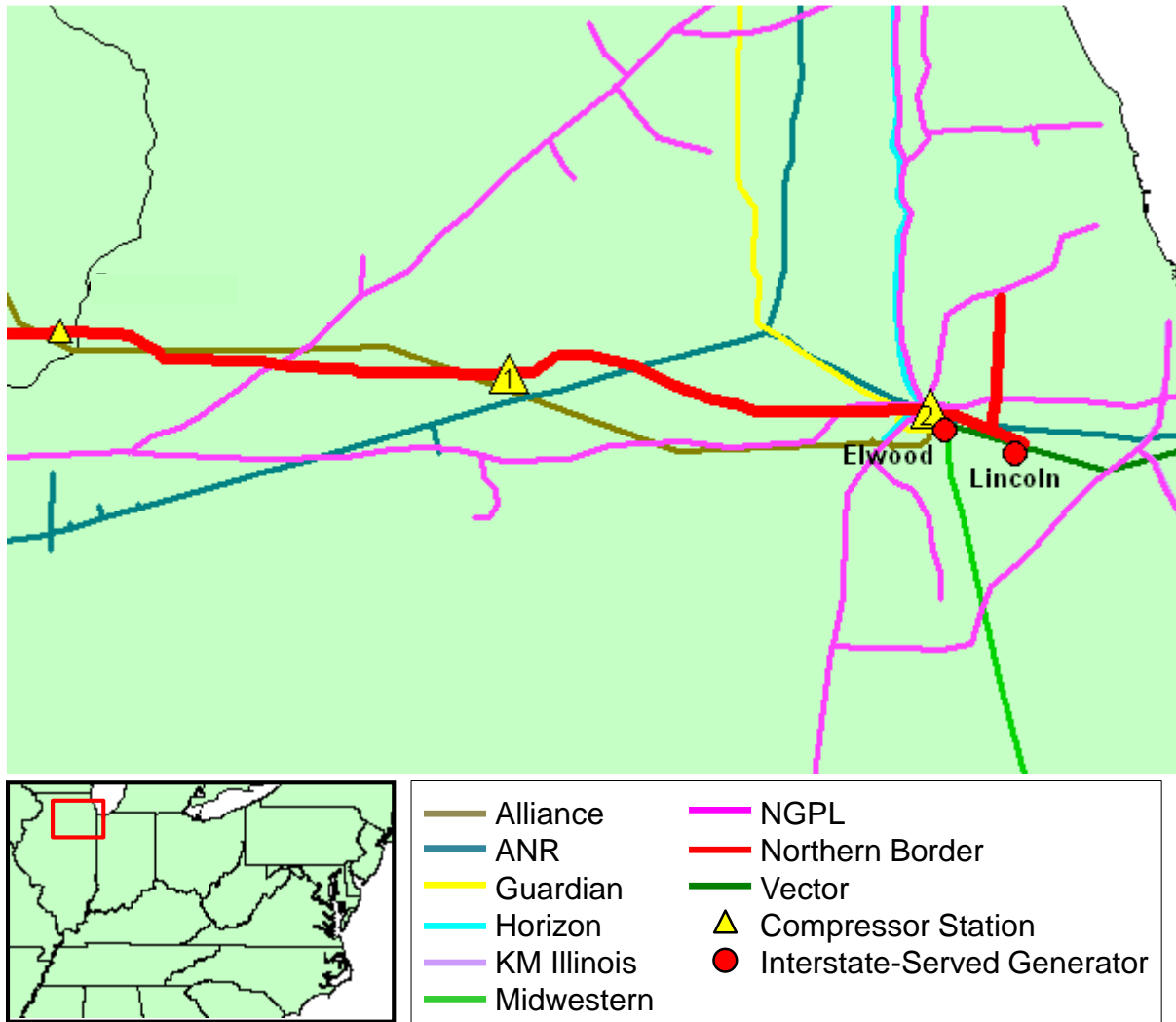


Figure A8-20. Northern Border Facilities in PJM

Table A8-23. PJM Generators Directly Connected to Northern Border

Generator	Capacity (MW)	Meter Name	Meter Number
Elwood	1,728.0	Elwood	472505
Lincoln	692.0	Wilton Center	274920

Table A8-24. Northern Border Compressor Stations in PJM

ID	Name	Location
1	Station 18	La Moille, IL
2	Channahon	Channahon, IL

Panhandle Eastern (Energy Transfer Partners)

Capacity: 2,840 MDth/d



Figure A8-21. Panhandle Eastern Facilities in PJM

Table A8-25. PJM Generators Directly Connected to Panhandle Eastern

Generator	Capacity (MW)	Meter Name	Meter Number
Montpelier	236.0	DPL Energy Montpelier CT Plant	2860
Richland	450.0	Richland Power Plant	2853

Table A8-26. Panhandle Eastern Compressor Stations in PJM

ID	Name	Location
1	Edgerton	Monroeville, IN

Rockies Express (Tallgrass / Sempra / Phillips 66)

Capacity: 2,000 MDth/d

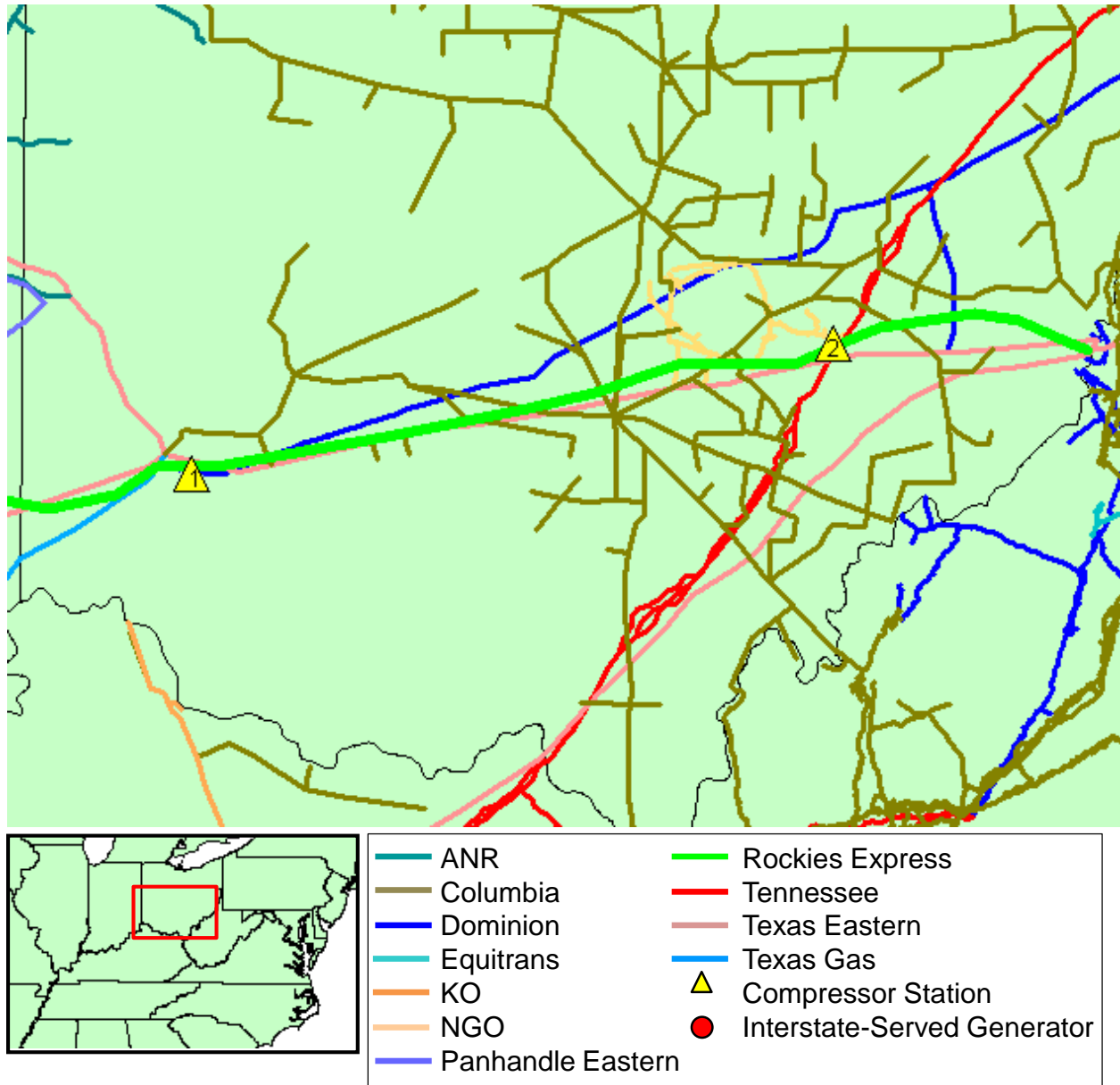


Figure A8-22. Rockies Express Facilities in PJM

Table A8-27. Rockies Express Compressor Stations in PJM

ID	Name	Location
1	Hamilton	Lebanon, OH
2	Chandlersville	Chandlersville, OH

Tennessee Gas Pipeline (Kinder Morgan)

Capacity: 1,191 MDth/d (Station 200), 1,677 MDth/d (Station 313)²⁴

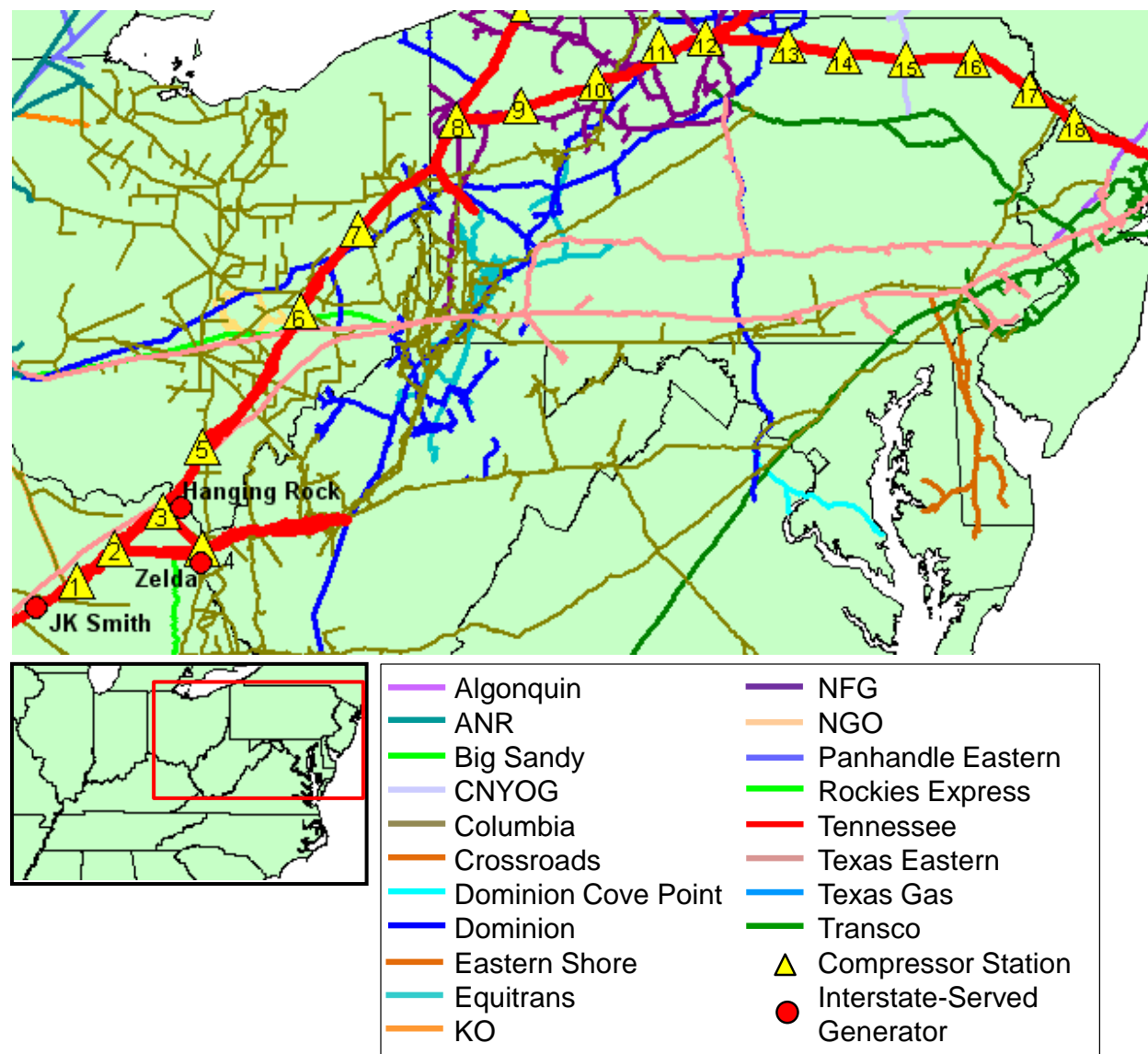


Figure A8-23. Tennessee Facilities in PJM

Table A8-28. PJM Generators Directly Connected to Tennessee

Generator	Capacity (MW)	Meter Name	Meter Number
Hanging Rock	1288	Duke AM/TGP Hanging Rock Scioto	421018
JK Smith ²⁵	1055.0	J K Smith Sales	420803
Zelda	1150.0	Riversid/TGP Lawrence Boyd	420924

²⁴ Operationally Available Capacity – Segment Capacity:
<http://pipeline2.kindermorgan.com/Capacity/OpAvailSegment.aspx?code=TGP>

²⁵ JK Smith is also directly connected to Texas Eastern.

Table A8-29. Tennessee Compressor Stations in PJM

ID	Name	Location
1	Station 106	Clay City, KY
2	Station 110	Morehead, KY
3	Station 200	Greenup, KY
4	Station 114	Catlettsburg, KY
5	Station 204	Albany, OH
6	Station 209	Cumberland, OH
7	Station 214	Carrollton, OH
8	Station 219	Mercer, PA
9	Station 303A	Seneca, PA
10	Station 307	Marienville, PA
11	Station 310A	Smethport, PA
12	Station 313	Coudersport, PA
13	Station 315	Middlebury Center, PA
14	Station 317	Troy, PA
15	Station 319	Wyalusing, PA
16	Station 321	West Clifford, PA
17	Station 323	Hawley, PA
18	Station 325	Wantage Township, NJ

Texas Eastern Transmission (Spectra Energy)

Capacity: 4,742 MDth/d (Uniontown)²⁶

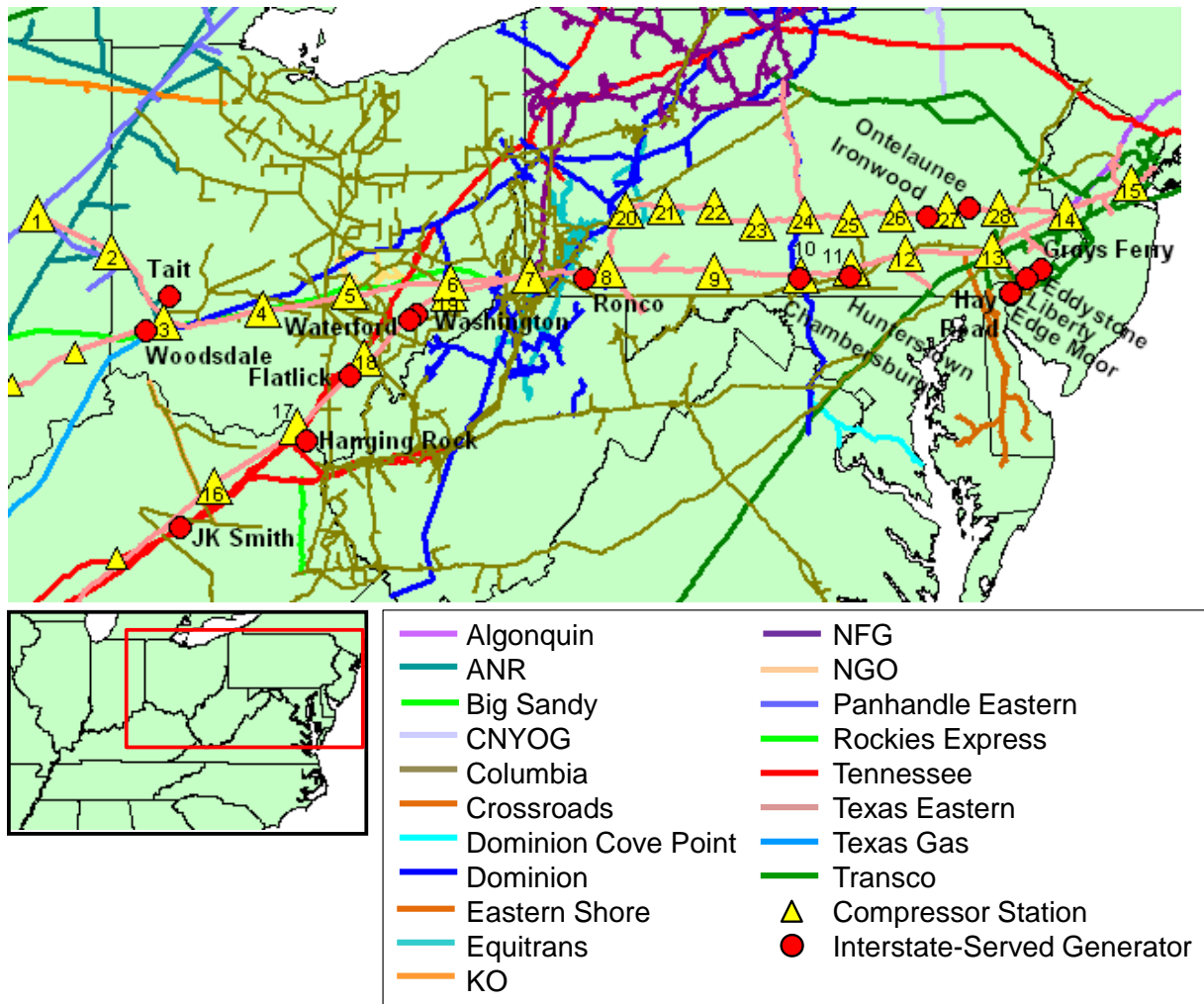


Figure A8-24. Texas Eastern Facilities in PJM

²⁶ Operationally Available Capacity – Operational Capacity Map:
<https://rtba.spectraenergy.com/InformationalPosting/Default.aspx?bu=TE&Type=OA>

Table A8-30. PJM Generators Directly Connected to Texas Eastern

Generator	Capacity (MW)	Meter Name	Meter Number
Chambersburg Guilford	87.6	Allegheny Energy, Chambersburg-Franklin Co., PA (Del)	73304
Eddystone ²⁷	1,489.2	PECO Energy - Eddystone, Delaware Co., PA	72930
Edge Moor ²⁸	697.8	Delmarva Power & Light - New Castle, DE (Ultra Sonic Mtrs)	72863
Flatlick (Rolling Hills)	800.0	Rolling Hills Generating LLC	73325
Grays Ferry ²⁹	157.9	PGW - Harkness Point - Philadelphia, PA	73060
Hanging Rock	1288	Duke Energy Ohio, Inc., Hanging Rock	73349
Hay Road ³⁰	1,097.5	Delmarva Power & Light - New Castle, DE (Ultra Sonic Mtrs)	72863
Hunterstown	868.8	RRI Energy Services, LLC (Reliant), Hunterstown-Adams Co.,	73306
Ironwood	704.0	PPA Energy - Ironwood, Lebanon Co., PA.	73239
JK Smith ³¹	1055.0	East Kentucky Power Co-Op-Clark Co., KY	73379
Liberty	521	Liberty Electric - Delaware County, PA	73318
Ontelaunee	557.0	Calpine - Ontelaunee, PA	73294
Ronco (Fayette Energy Center)	675.0	Cincinnati Gas & Electric Company DBA DEO	73346
Tait ³²	684.6	D.P.L. Energy, LLC. (Farmersville -Tait) - Montgomery Co., OH	73270
Washington	600.0	Duke Energy Washington II, LLC	73297
Waterford	913.0	AEP Generation Resources Inc.- Waterford - Washington Co.,	73334
Woodsdale ³³	489.6	Duke Energy Kentucky	73280

²⁷ Texas Eastern serves Eddystone via a dedicated PECO Energy lateral.

²⁸ Texas Eastern serves Edge Moor via a Delmarva Power & Light lateral.

²⁹ Texas Eastern serves Grays Ferry via a dedicated Philadelphia Gas Works lateral.

³⁰ Texas Eastern serves Hay Road via a Delmarva Power & Light lateral.

³¹ JK Smith is also directly connected to Tennessee.

³² Tait is also served by ANR and Vectren Ohio.

³³ Woodsdale is also connected to Texas Gas via a dedicated Duke Energy Ohio lateral.

Table A8-31. Texas Eastern Compressor Stations in PJM

ID	Name	Location
1	Gas City	Gas City, IN
2	Glen Karn	Hollansburg, OH
3	Lebanon	Lebanon, OH
4	Five Points	Williamsport, OH
5	Somerset	Somerset, OH
6	Summerfield	Summerfield, OH
7	Holbrook	Holbrook, PA
8	Uniontown	Lemont Furnace, PA
9	Bedford	Bedford, PA
10	Chambersburg	Chambersburg, PA
11	Heidlersburg	Gettysburg, PA
12	Marietta	Marietta, PA
13	Eagle	Chester Springs, PA
14	Lambertville	Lambertville, NJ
15	Linden	Linden, NJ
16	Owingsville	Owingsville, KY
17	Wheelersburg	Wheelersburg, OH
18	Athens	Athens, OH
19	Berne	Lewisville, OH
20	Delmont	Delmont, PA
21	Armagh	New Florence, PA
22	Lilly	Lilly, PA
23	Enriken	Enriken, PA
24	Perulack	Blairs Mills, PA
25	Shermansdale	Middletown, PA
26	Grantville	Grantville, PA
27	Bernville	Bernville, PA
28	Bechtelsville	Bechtelsville, PA

Texas Gas (Boardwalk Pipeline Partners)

Capacity: 4,592 MDth/d

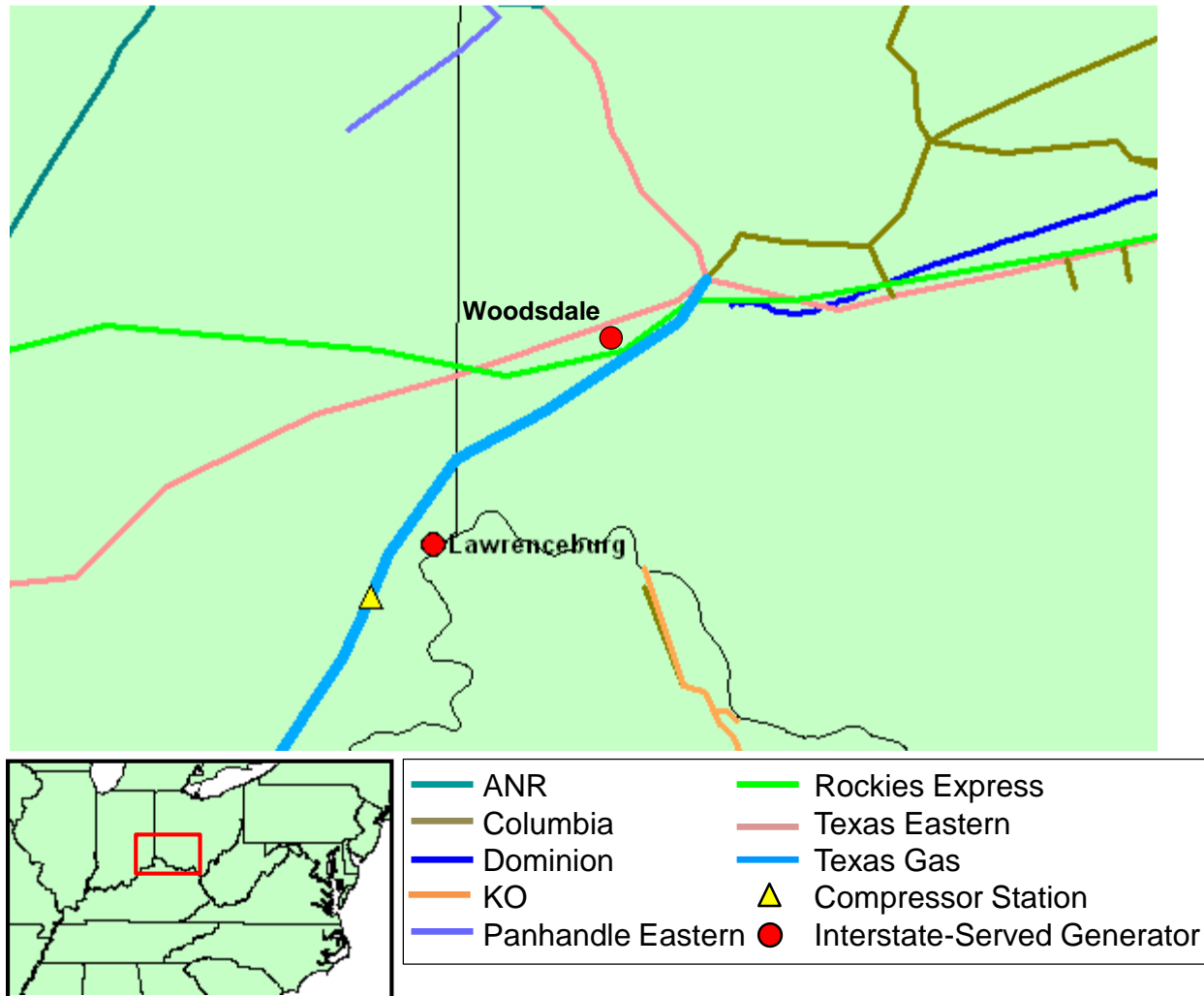


Figure A8-25. Texas Gas Facilities in PJM

Table A8-32. PJM Generators Directly Connected to Texas Gas

Generator	Capacity (MW)	Meter Name	Meter Number
Lawrenceburg	1,232.0	Lawrenceburg Power Plant	9582
Woodsdale ³⁴	489.6	Woodsdale	1234

³⁴ Texas Gas serves Woodsdale via a dedicated Duke Energy Ohio lateral. Woodsdale is also directly connected to Texas Eastern.

Transcontinental Pipeline (Williams)

Capacity: 2,489 MDth/d (Station 180), 2,832 MDth/d (Station 505)³⁵

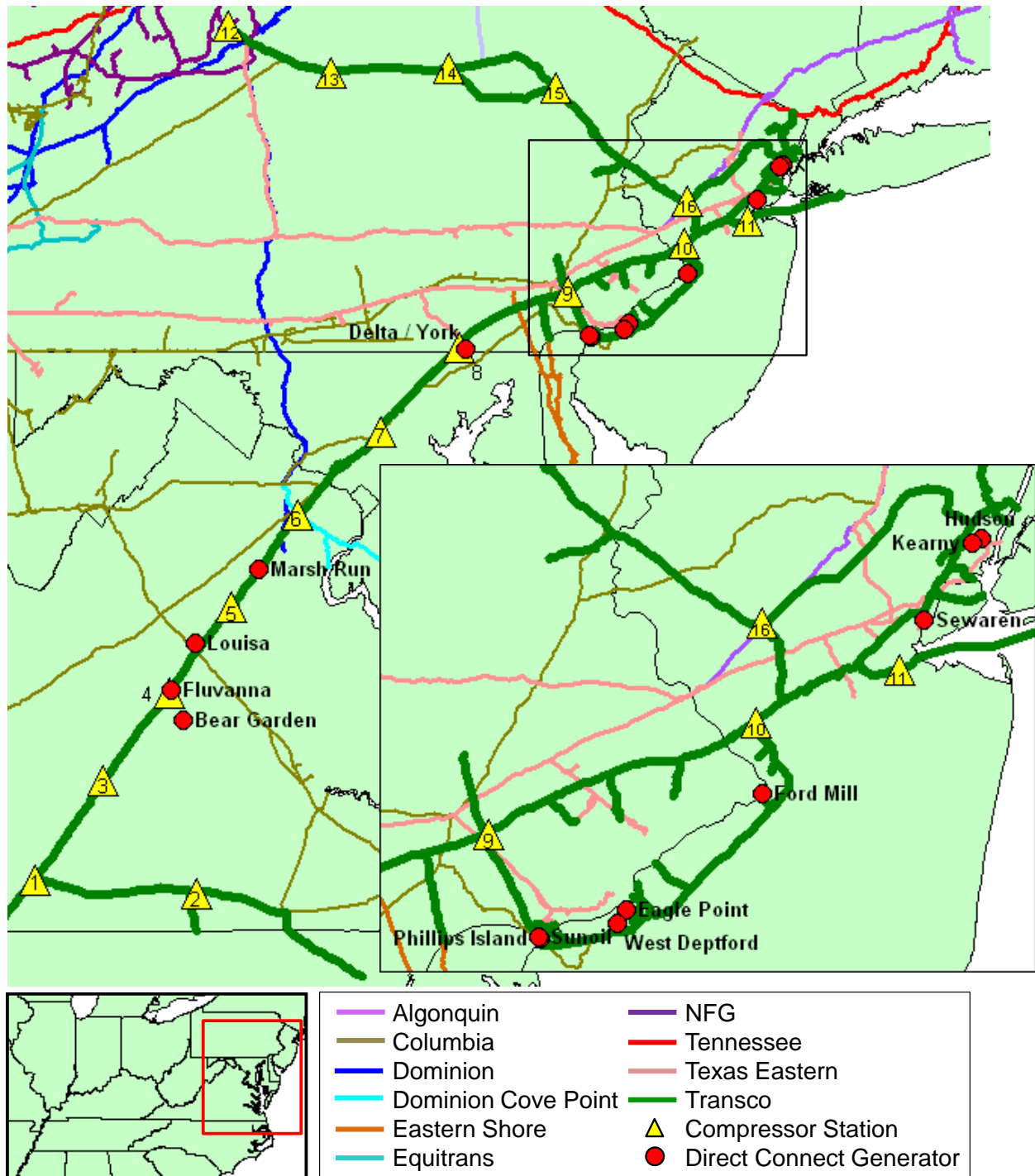


Figure A8-26. Transco Facilities in PJM

³⁵ Operational Capacity Map: <http://www.1line.williams.com/ebbCode/MapTranscoMain.jsp>

Table A8-33. PJM Generators Directly Connected to Transco

Generator	Capacity (MW)	Meter Name	Meter Number
Bear Garden ³⁶	559.0	Bear Garden M7386 MP 1493.66	9005482
Delta / York	560.0	Delta Pwr Gen M6314 MP 3.42	9005606
Eagle Point	223.0	Eagle Refinery M6188	1006403
Fluvanna	946.1	Antioch Power M7389 MP 1502.3	9001041
Ford Mill (Fairless Works) ³⁷	1,077.7	Fairless Enrgy M6309 MP 2.7	9000564
Hudson	1,114.5	Public Service E&G MP 1809.25	1006386
Kearny	311.2	Public Service E&G MP 1809.25 (Kearny M6236)	1006386
Louisa	509.1	Louisa Rd Pwr M7387 MP 1519.85	9000068
Marsh Run	513.3	Marsh Run M7391 MP 1558.87	9001420
Phillips Island (Marcus Hook)	836.1	Post Road M6317 MP 19.57	9000560
Sewaren	431.1	Public Service E&G MP 1809.25 (Sewaren M6033)	1006386
Sunoil (Marcus Hook Refinery)	50.5	Post Road M6317 MP 19.57	1006861
West Deptford	738.0	N/A ³⁸	N/A

Table A8-34. Transco Compressor Stations in PJM

ID	Name	Location
1	Station 165	Chatham, VA
2	Station 167	South Hill, VA
3	Station 170	Appomattox, VA
4	Station 175	Scottsville, VA
5	Station 180	Unionville, VA
6	Station 185	Manassas, VA
7	Station 190	Ellicott, MD
8	Station 195	Delta, PA
9	Station 200	Frazer, PA
10	Station 205	Lawrenceville
11	Station 207	Parlin, NJ
12	Station 535	Austin, PA
13	Station 520	Salladasburg, PA
14	Station 517	Benton, PA
15	Station 515	Bear Creek, PA
16	Station 505	Neshanic Station, NJ

³⁶ Bear Garden is also connected to the Columbia Gas of Virginia LDC

³⁷ Transco serves Fairless Works via a dedicated PECO Energy lateral.

³⁸ West Deptford is still under construction, and therefore does not yet appear on Transco's EBB.

Vector Pipeline (Enbridge / DTE Energy)

Capacity: 1,276 MDth/d

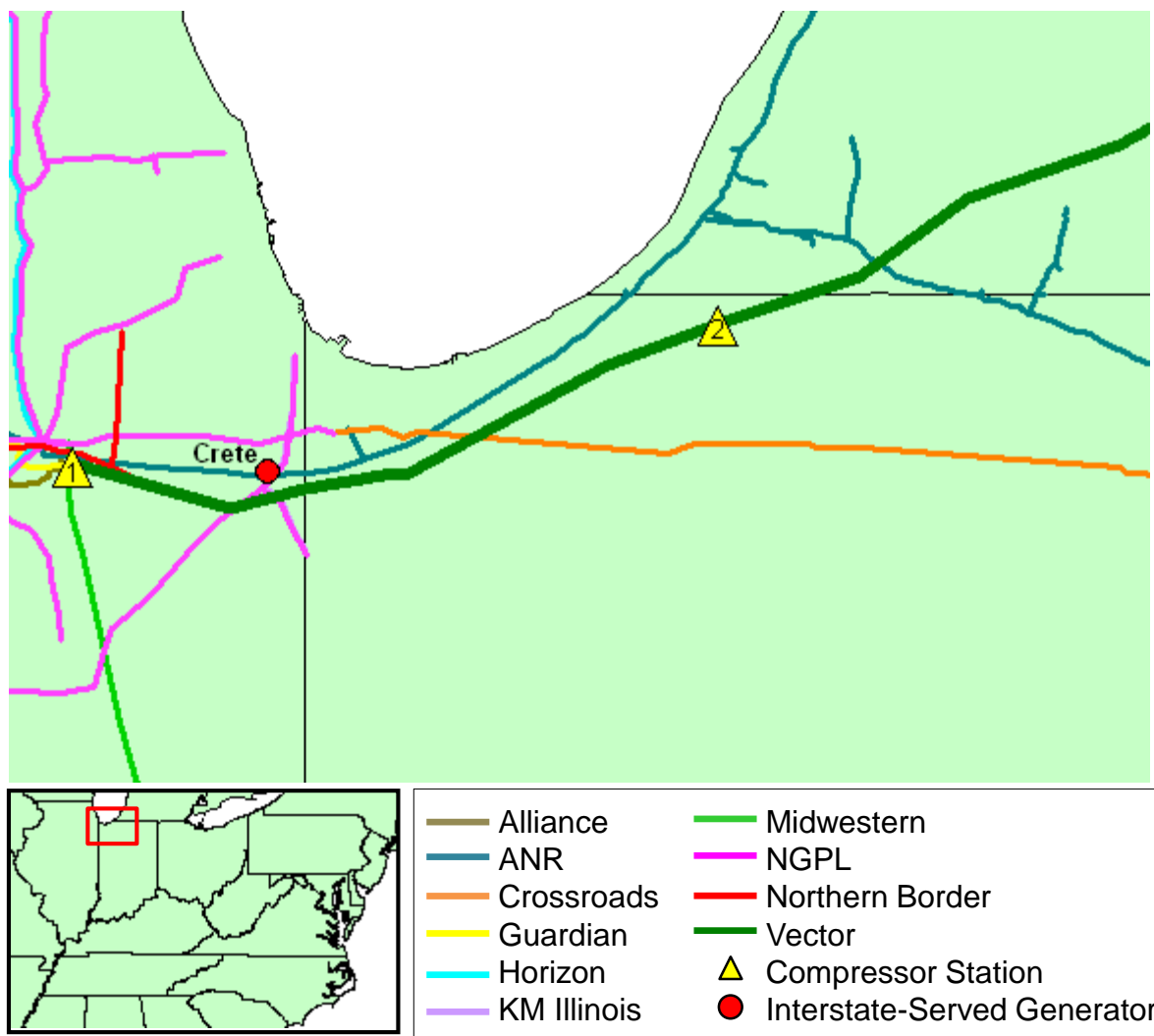


Figure A8-27. Vector Facilities in PJM

Table A8-35. PJM Generators Directly Connected to Vector

Generator	Capacity (MW)	Meter Name	Meter Number
Crete ³⁹	356.0	Crete	316078

Table A8-36. Vector Compressor Stations in PJM

ID	Name	Location
1	Joliet	Elwood, IL
2	Springville	La Porte, IN

³⁹ Crete also has a direct connection to ANR.

Ameren Illinois

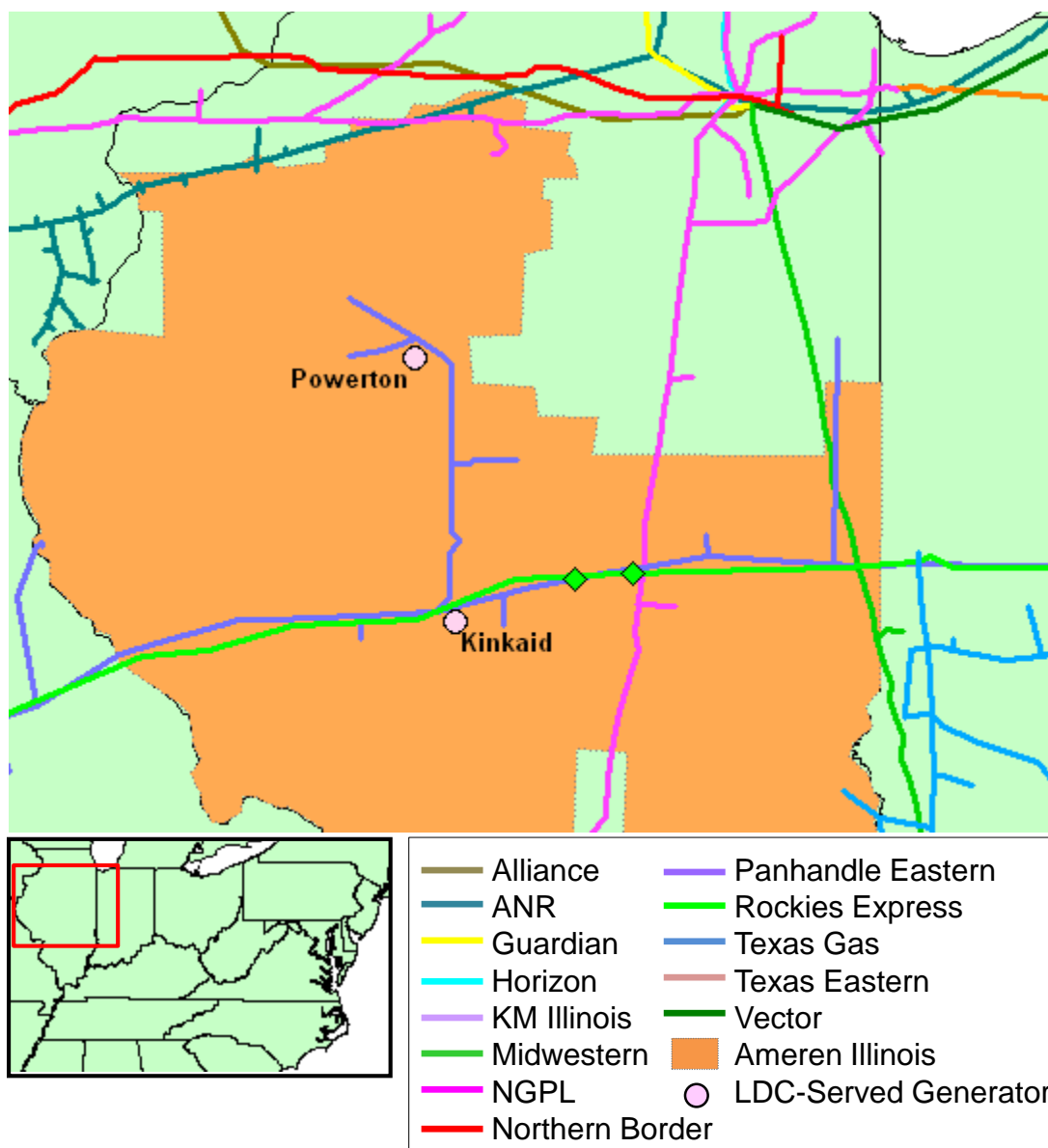


Figure A8-28. Ameren Illinois Service Territory

Table A8-37. PJM Generators Served by Ameren Illinois

Generator	Capacity (MW)
Kincaid ⁴⁰	1,319.0
Powerton ⁴¹	1,785.6

⁴⁰ Kincaid is a coal plant, Ameren Illinois provides natural gas for ignition.

⁴¹ Powerton is a coal plant, Ameren Illinois provides natural gas for ignition.

Table A8-38. Ameren Illinois Citygate Meters

Pipeline	Meter Name	Meter Number
Panhandle Eastern	Ameren Illinois	PEAIC
Rockies Express	Amer IL/REX Moultrie	44488

Appalachian Natural Gas Distribution

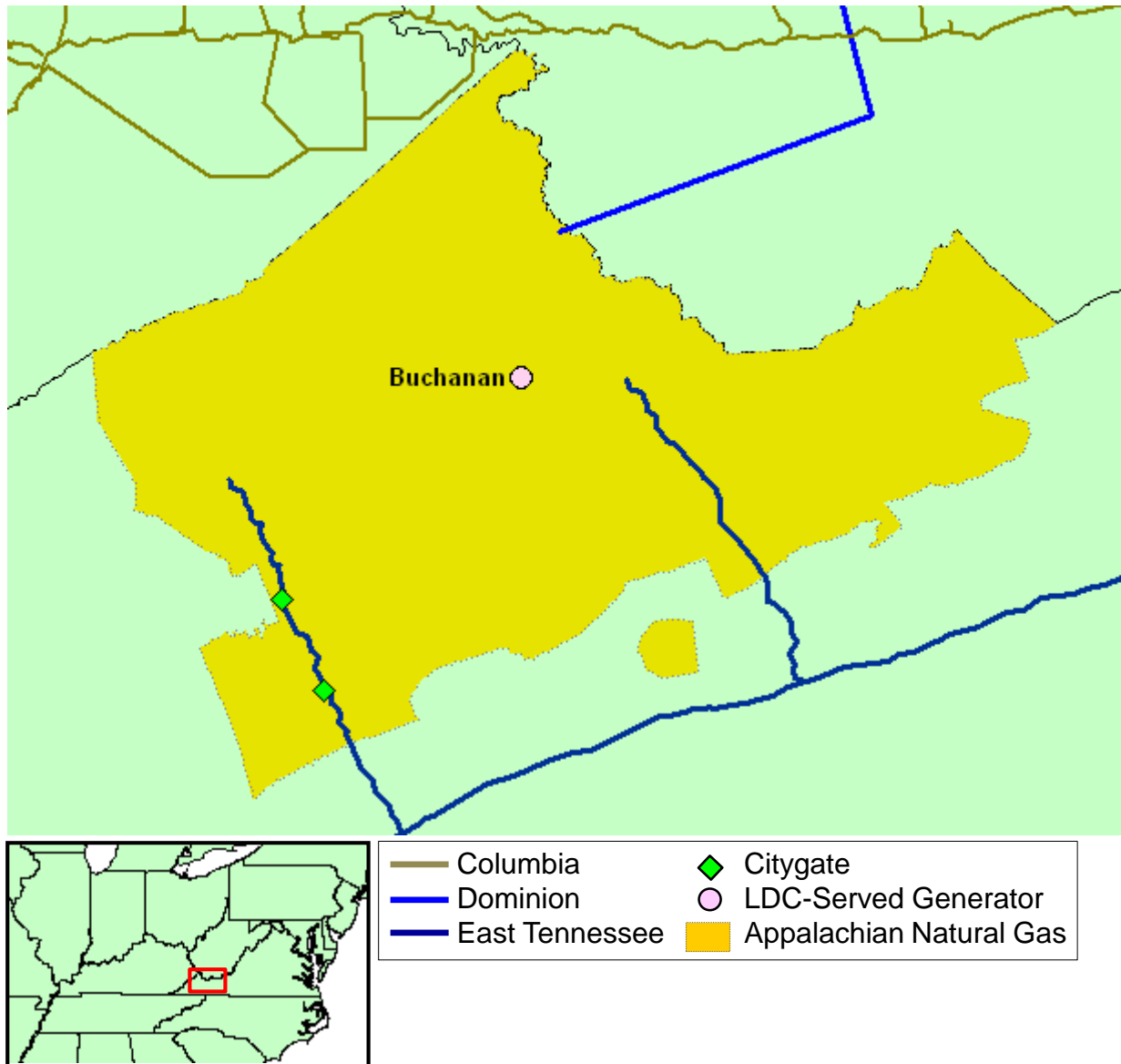


Figure A8-29. Appalachian Natural Gas Service Territory

Table A8-39. PJM Generators Served by Appalachian Natural Gas Distribution

Generator	Capacity (MW)
Buchanan	88.0

Table A8-40. Appalachian Natural Gas Distribution Citygate Meters

Pipeline	Meter Name	Meter Number
East Tennessee	Appalachian Castlewood Delivery	59148
East Tennessee	Appalachian Lebanon	59150

Atmos Energy

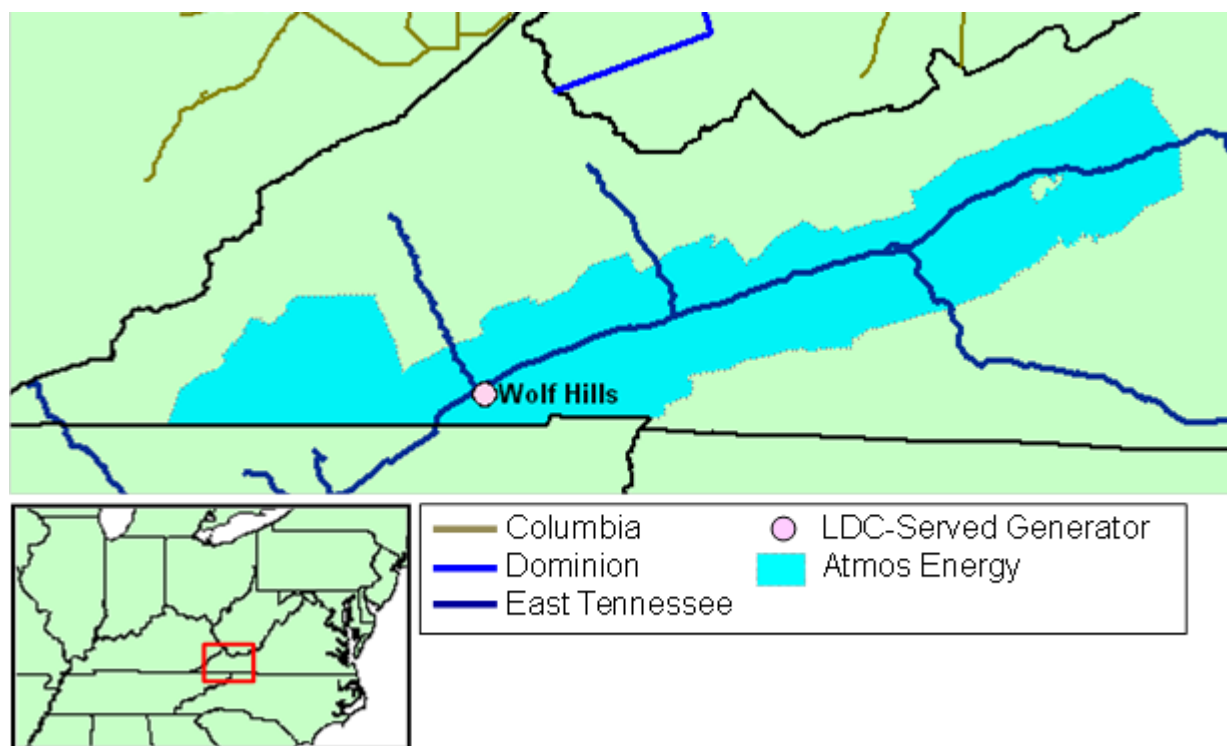


Figure A8-30. Atmos Energy Service Territory

Table A8-41. PJM Generators Served by Atmos Energy

Generator	Capacity (MW)
Wolf Hills ⁴²	285.0

⁴² Wolf Hills is served by a dedicated lateral from East Tennessee.

Table A8-42. Atmos Energy Citygate Meters

Pipeline	Meter Name	Meter Number
East Tennessee	UCG Blacksburg	59010
East Tennessee	UCG Pulaski	59013
East Tennessee	UCG Radford	59022
East Tennessee	UCG Wytheville	59069
East Tennessee	UCG Marion	59075
East Tennessee	UCG Abingdon West	59076
East Tennessee	UCG Dublin	59077
East Tennessee	UCG Marion East	59116
East Tennessee	UCG Abingdon East	59117
East Tennessee	UCG Radford East	59118
East Tennessee	UCG Glade Springs	59119
East Tennessee	UCG Marion North	59120
East Tennessee	UCG Chilhowie	59121
East Tennessee	UCG Rural Retreat	59122
East Tennessee	UCG - Glade Highlands	59185
East Tennessee	United Cities - Wolf Hills Power Plant	59192
East Tennessee	UCG, Progress Park - Wythe Co., VA	59193
East Tennessee	Marion	59213
East Tennessee	Wytheville	59214
East Tennessee	Pulaski	59215
East Tennessee	Dublin	59216
East Tennessee	Radford	59217

Baltimore Gas & Electric (Exelon)

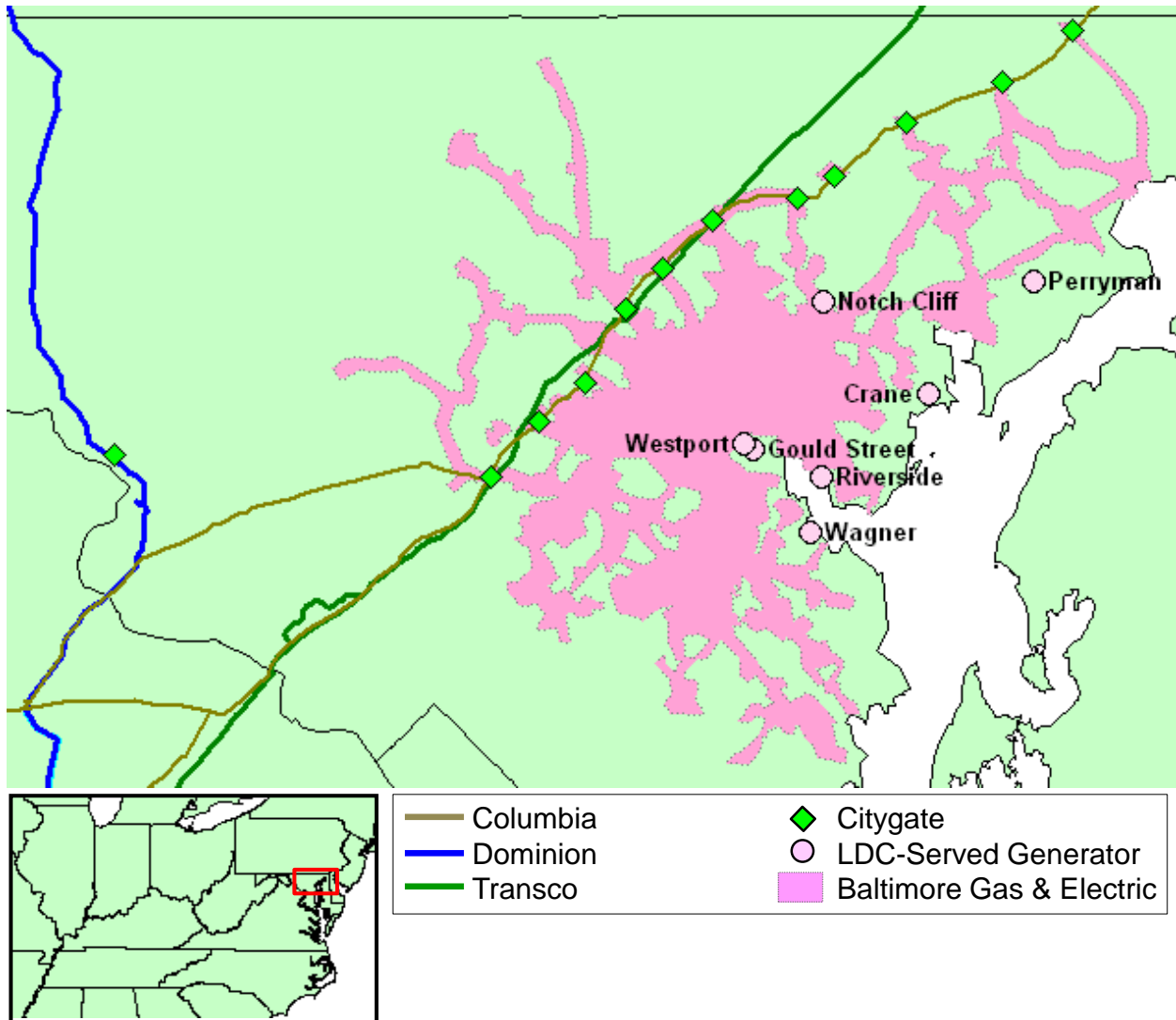


Figure A8-31. Baltimore Gas & Electric Service Territory

Table A8-43. PJM Generators Served by Baltimore Gas & Electric

Generator	Capacity (MW)
Crane ⁴³	399.8
Gould Street	103.5
Notch Cliff	144.0
Perryman	192.0
Riverside	194.0
Wagner (Herbert A) ⁴⁴	1,043.0
Westport	122.0

Table A8-44. Baltimore Gas & Electric Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia	Baltimore Gas & Elec	4
Dominion	Baltimore Gas and Electric	22000
Transco	BGE-Beaver Dam M4392	1006743

⁴³ Crane is a coal plant, Baltimore Gas & Electric provides ignition fuel.

⁴⁴ Wagner is a coal plant, Baltimore Gas & Electric provides ignition fuel.

City of Richmond (Municipal)

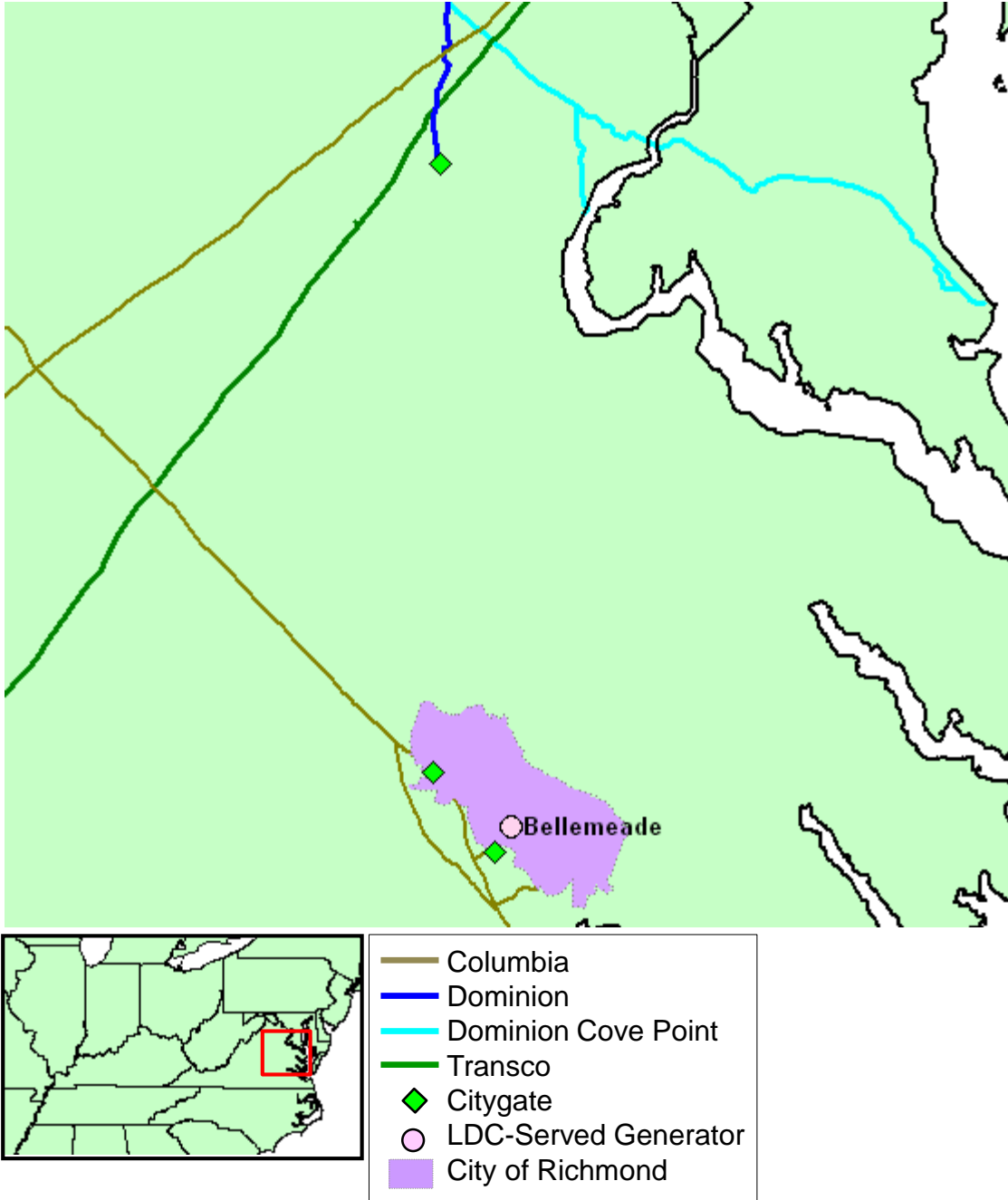


Figure A8-32. City of Richmond Service Territory

Table A8-45. PJM Generators Served by City of Richmond

Generator	Capacity (MW)
Bellemeade	330.0

Table A8-46. City of Richmond Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	COR/RPE Bellmeade	837059
Columbia Gas	Richmond City of	30RV
Dominion	City of Richmond ⁴⁵	22600

⁴⁵ Delivery is via Virginia Natural Gas.

Columbia Gas of Pennsylvania (NiSource)

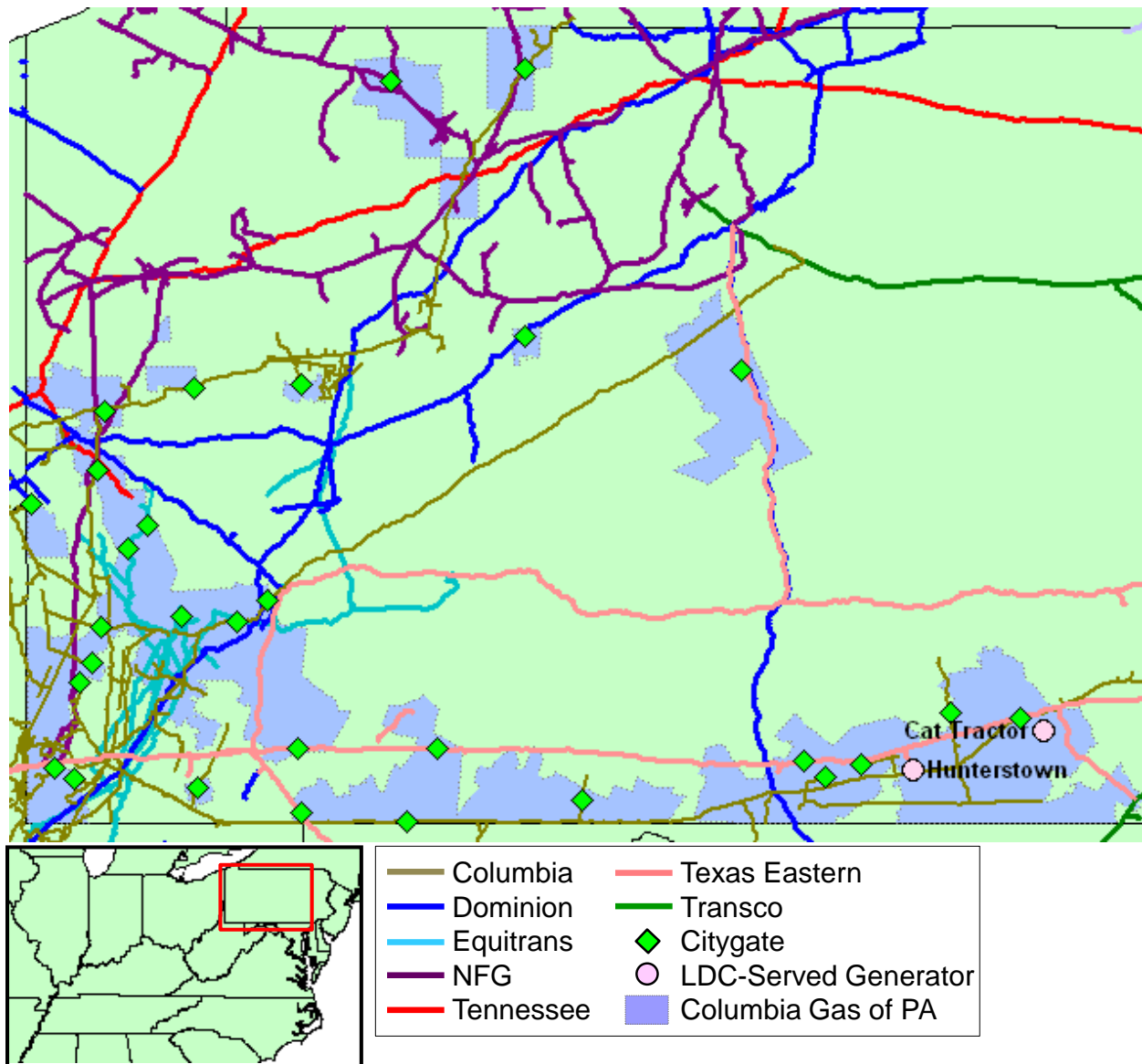


Figure A8-33. Columbia Gas of Pennsylvania Service Territory

Table A8-47. PJM Generators Served by Columbia Gas of Pennsylvania

Generator	Capacity (MW)
Cat Tractor (York Cogen)	68.8
Hunterstown ⁴⁶	868.8

⁴⁶ Hunterstown is also directly connected to Texas Eastern.

Table A8-48. Columbia Gas of Pennsylvania Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Col Gas PA 08-26	25-26
Columbia Gas	Col Gas PA 08-35	25-35
Columbia Gas	Col Gas PA 08-36	25-36
Columbia Gas	Col Gas PA 08-38	25-38
Columbia Gas	Col Gas PA 08-39	25-39
Columbia Gas	Col Gas PA 08-40	25-40
Columbia Gas	Col Gas PA 04-25	25E-25
Columbia Gas	Col Gas PA 04-29	25E-29
Equitrans	Groveton	11222
Equitrans	Bradford Woods	11289
Equitrans	Jefferson	5050E
NFG	Col Gas PA - Warren To Columbia Dist Gate	PSN0329621
Texas Eastern	Columbia Gas (Mfgrs.) - Uniontown, PA	70056
Texas Eastern	Columbia Gas (Mfgrs.) - Rockwood, PA	70579
Texas Eastern	Columbia Gas Of Pa. - York Co. PA.	71219
Texas Eastern	Columbia Gas (Mfgrs.) - Pleasant Gap, PA	71363
Texas Eastern	Columbia Gas (N.W.L. Corp.) - Fayette Co., PA	72942
Texas Eastern	Columbia Gas - Franklin Co. PA (Delivery)	73200

Columbia Gas of Virginia (NiSource)

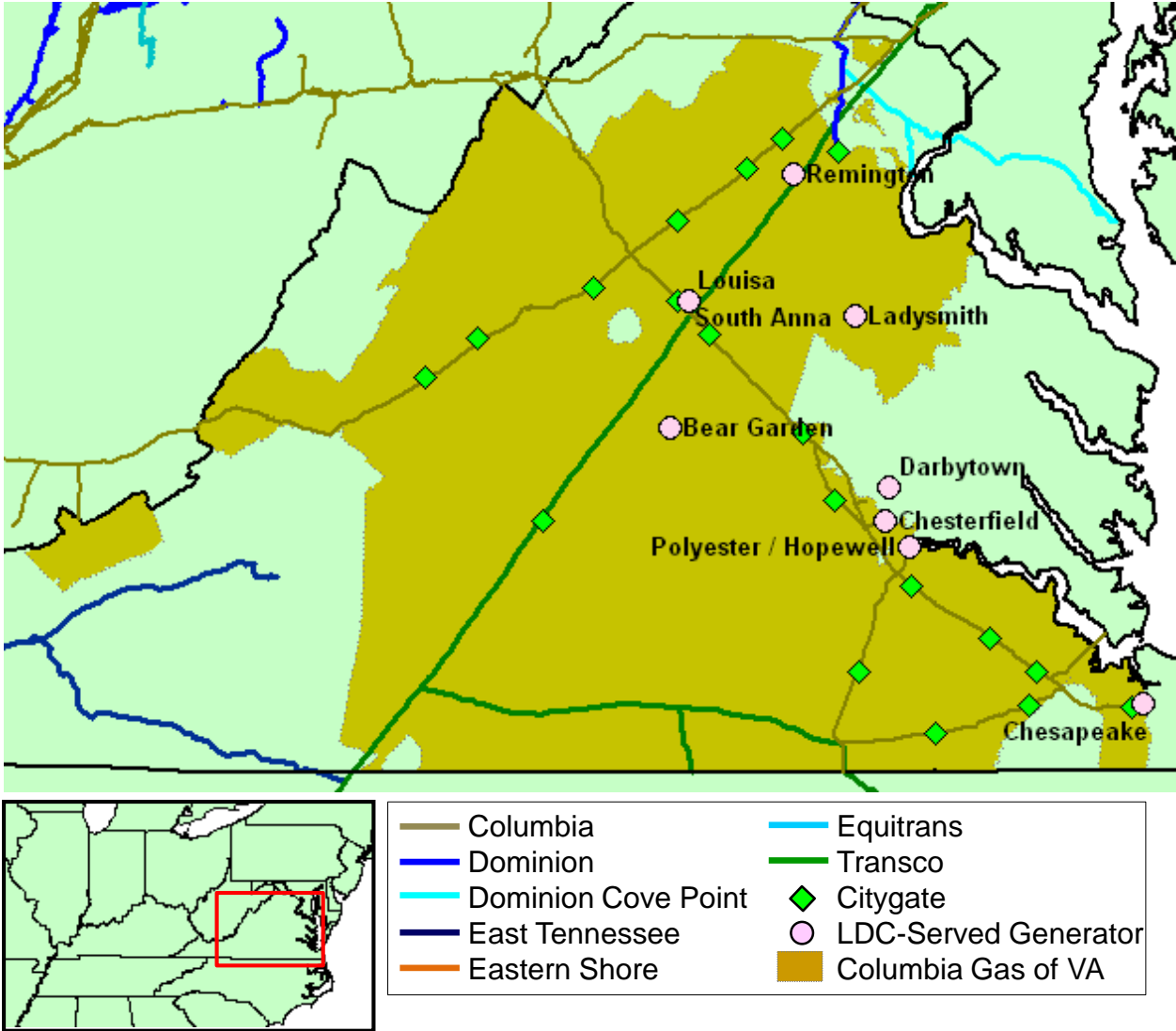


Figure A8-34. Columbia Gas of Virginia Service Territory

Table A8-49. PJM Generators Served by Columbia Gas of Virginia

Generator	Capacity (MW)
Bear Garden ⁴⁷	559.0
Chesapeake	122.0
Chesterfield ⁴⁸	446.6
Darbytown ⁴⁹	368.4
Ladysmith ⁵⁰	357.0
Louisa ⁵¹	509.1
Polyester / Hopewell ⁵²	71.1
Remington	705.5
South Anna (Gordonsville) ⁵³	300.4

Table A8-50. Columbia Gas of Virginia Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	CGV OP 03-17	26-17
Columbia Gas	CGV OP 03-18	26-18
Columbia Gas	CGV 01-33	30CS-33
Columbia Gas	CGV 01-34	30CS-34
Columbia Gas	CGV OP 10-30	46-30
Columbia Gas	CGV OP 10-31	46-31
Columbia Gas	Chesterfield Power	831082
Columbia Gas	Red Hill Station	837462
Columbia Gas	GELP Columbus 846600	833866
Dominion	Columbia Gas of Virginia	22800
Transco	Lynchburg	1006173

⁴⁷ Bear Garden also has a direct connection to Transco.

⁴⁸ Chesterfield served by a dedicated lateral from Columbia Gas. Chesterfield is also served by a lateral supplied by Dominion via Virginia Natural Gas.

⁴⁹ Darbytown is also served by Virginia Natural Gas.

⁵⁰ Ladysmith is served via a Virginia Natural Gas lateral from Dominion.

⁵¹ Louisa served by a dedicated lateral from Columbia Gas.

⁵² Hopewell is a coal plant, Columbia Gas of Virginia delivers natural gas for ignition.

⁵³ Gordonsville is served by a dedicated lateral from Columbia Gas.

Delmarva Power & Light (Pepco Holdings)

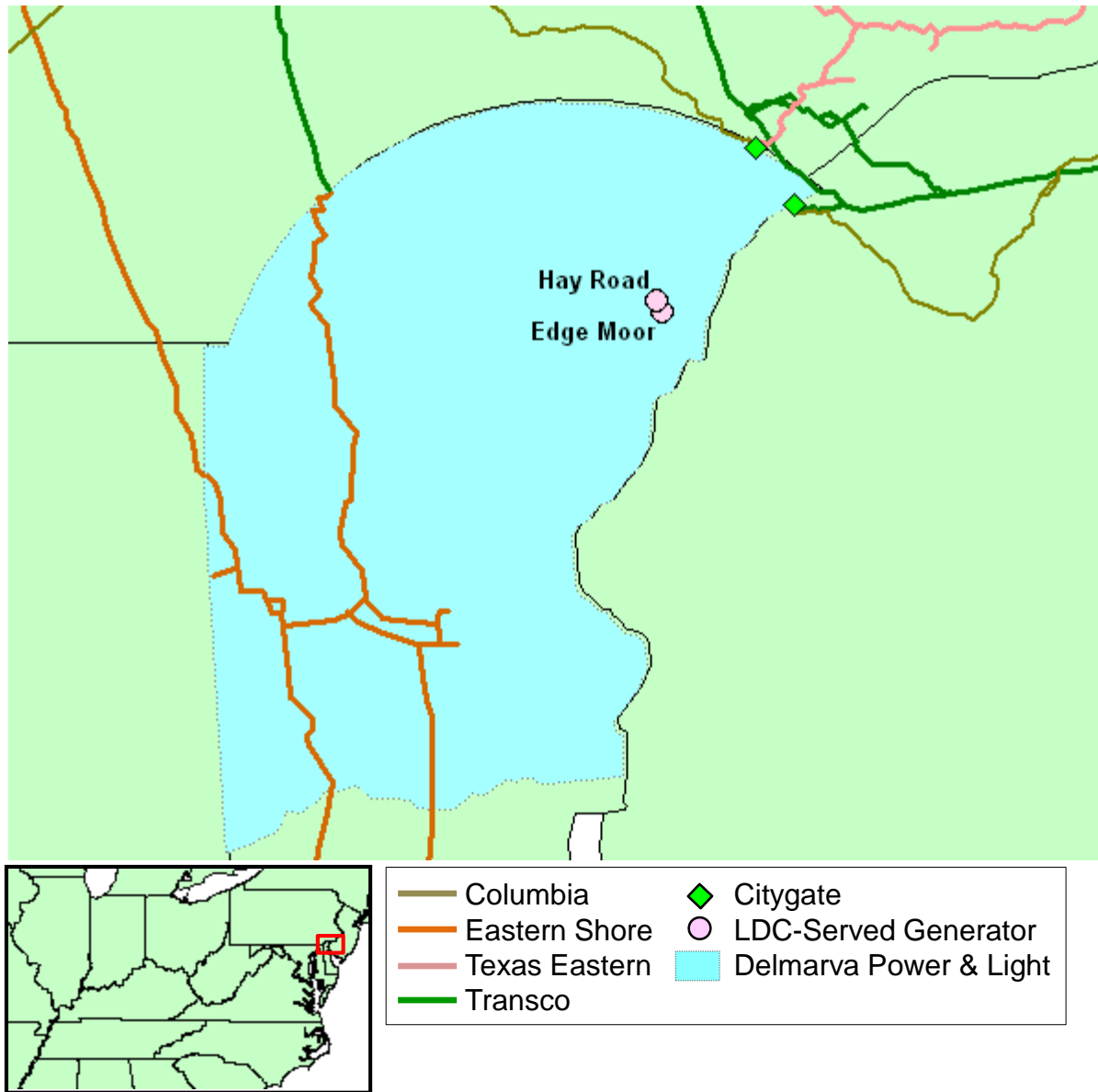


Figure A8-35. Delmarva Power & Light Service Territory

Table A8-51. PJM Generators Served by Delmarva Power & Light

Generator	Capacity (MW)
Edge Moor	697.8
Hay Road	1,097.5

Table A8-52. Delmarva Power & Light Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Delmarva Power Light	107
Eastern Shore ⁵⁴	N/A	N/A
Texas Eastern	Delmarva Power & Light - New Castle, DE (Ultra Sonic Mtrs)	72863
Transco	Delmarva	1006587

⁵⁴ The locations of the Eastern Shore citygates could not be determined from publicly available information.

Dominion East Ohio (Dominion Resources)

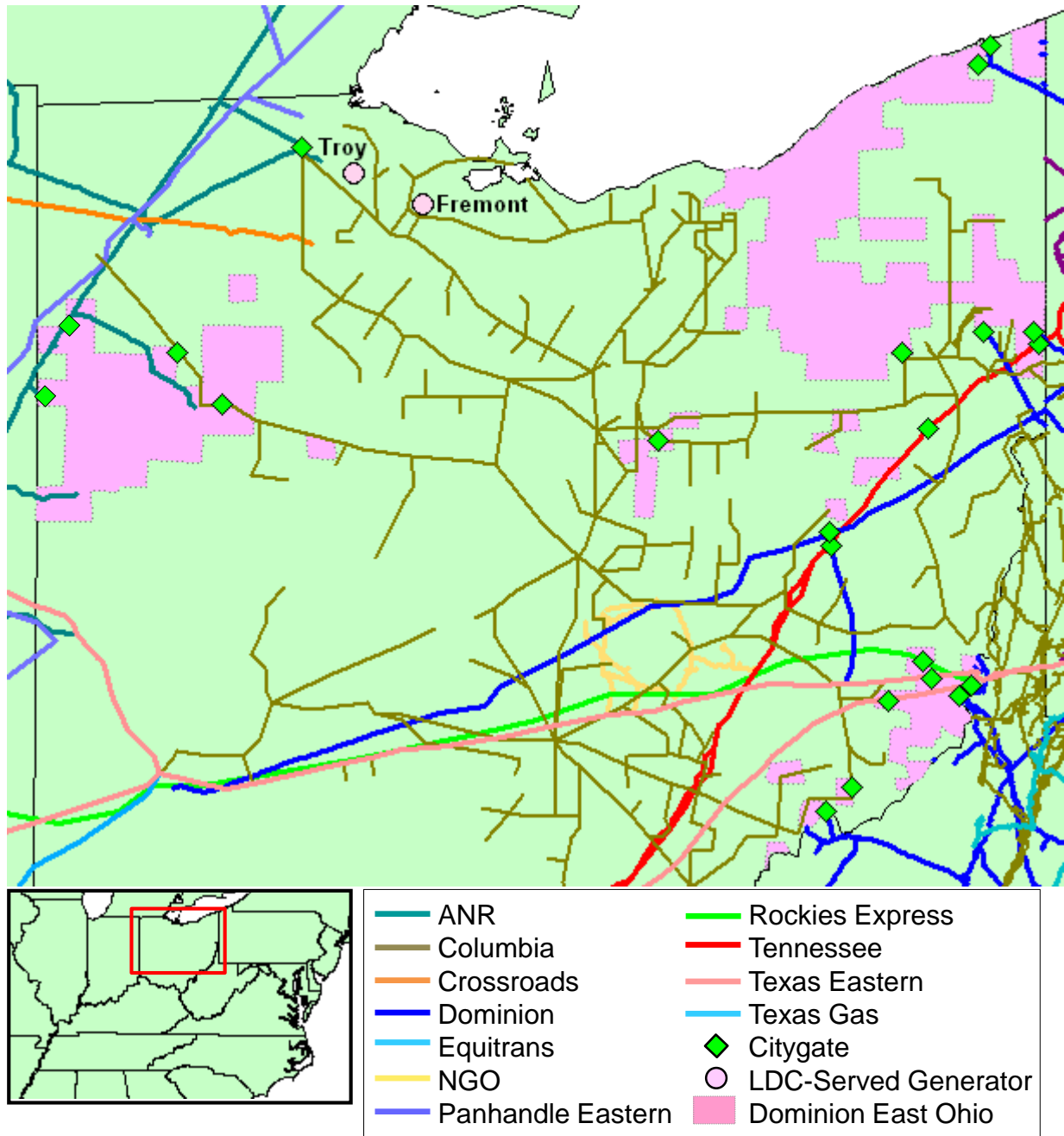


Figure A8-36. Dominion East Ohio Service Territory

Table A8-53. PJM Generators Served by Dominion East Ohio

Generator	Capacity (MW)
Fremont	739.5
Troy	688.0

Table A8-54. Dominion East Ohio Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	Haviland-East Ohio Gas	40482
ANR	Maumee South/East Ohio	104776
ANR	Maumee North/East Ohio	108641
ANR	St Henry –East Ohio Gas	112029
ANR	East Ohio Grp 1	139252
ANR	East Ohio Grp 2	356048
Columbia Gas	EOC Buzzard	706234
Columbia Gas	Ellis Interconnect	728376
Columbia Gas	OIG - Bethlehem	734725
Columbia Gas	East Ohio Gas Co-2	80-2
Columbia Gas	East Ohio Gas Co-3	80-3
Columbia Gas	East Ohio Gas Co- 4	80-4
Dominion	Dominion East Ohio	20100
Panhandle Eastern	East Ohio Gas	EOHIO
Rockies Express	E Oh Gas/REX Clar Monroe	44490
Texas Eastern	Dominion Transmission Inc - Woodsfield, OH	70471
Texas Eastern	Dominion Transmission Inc - Powhatan Point, OH	70983
Texas Eastern	East Ohio Gas - Clarington, OH	74040
Tennessee	E Oh Gas/TGP Augusta Sales Carroll	420728
Tennessee	E OH GAS/TGP GILMORE SALES TUSCARAW	420934
Tennessee	E Oh Gas/TGP Petersburg Mahoning	420932

Dominion Hope (Dominion Resources)

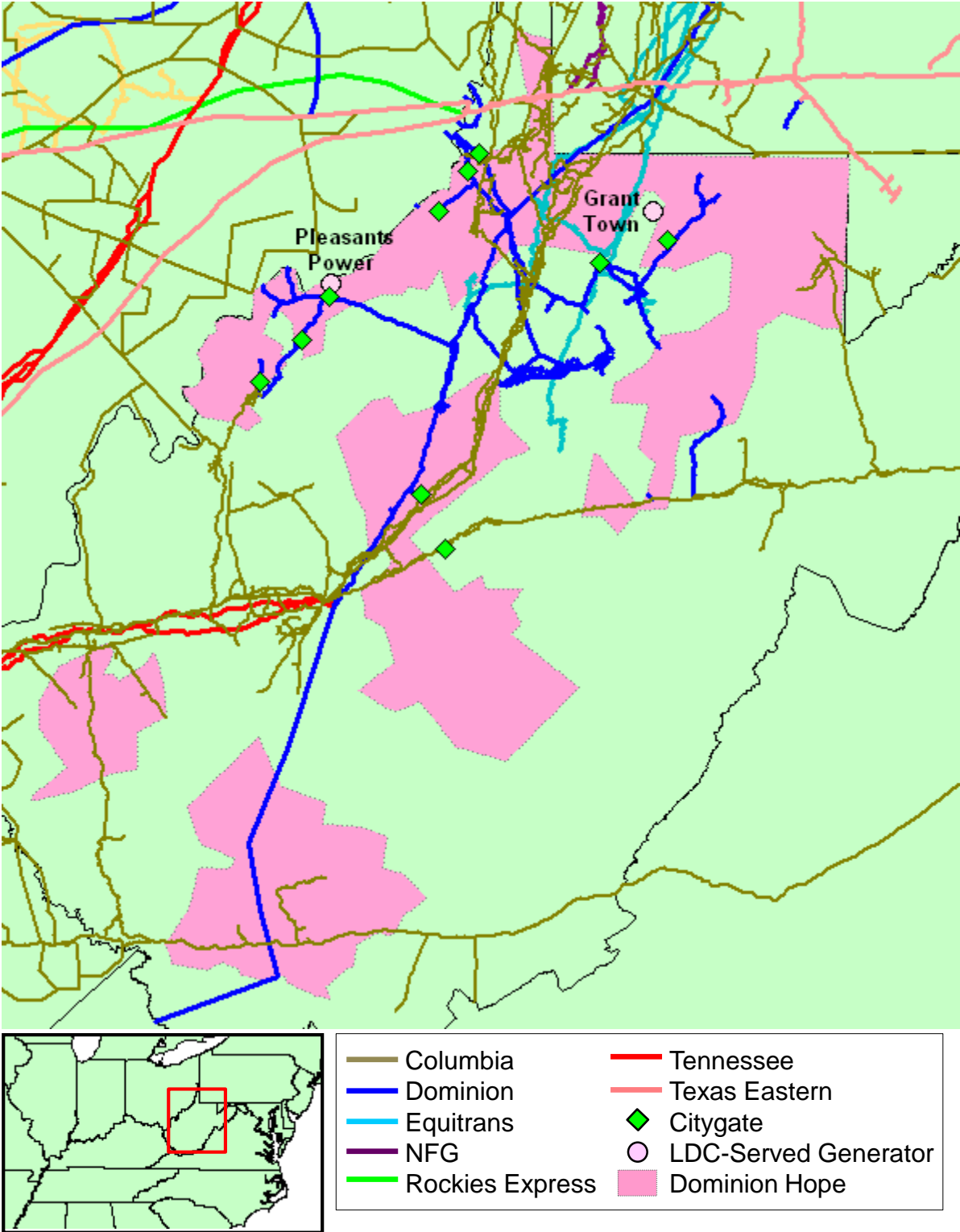


Figure A8-37. Dominion Hope Service Territory

Table A8-55. PJM Generators Served by Dominion Hope

Generator	Capacity (MW)
Grant Town	95.7
Pleasants ⁵⁵	1,368.0

Table A8-56. Dominion Hope Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Hope Flatwoods POD	834482
Dominion	Dominion Hope	20300

⁵⁵ Pleasants is a coal plant, Dominion Hope delivers natural gas for ignition.

Duke Energy Ohio (Duke Energy)

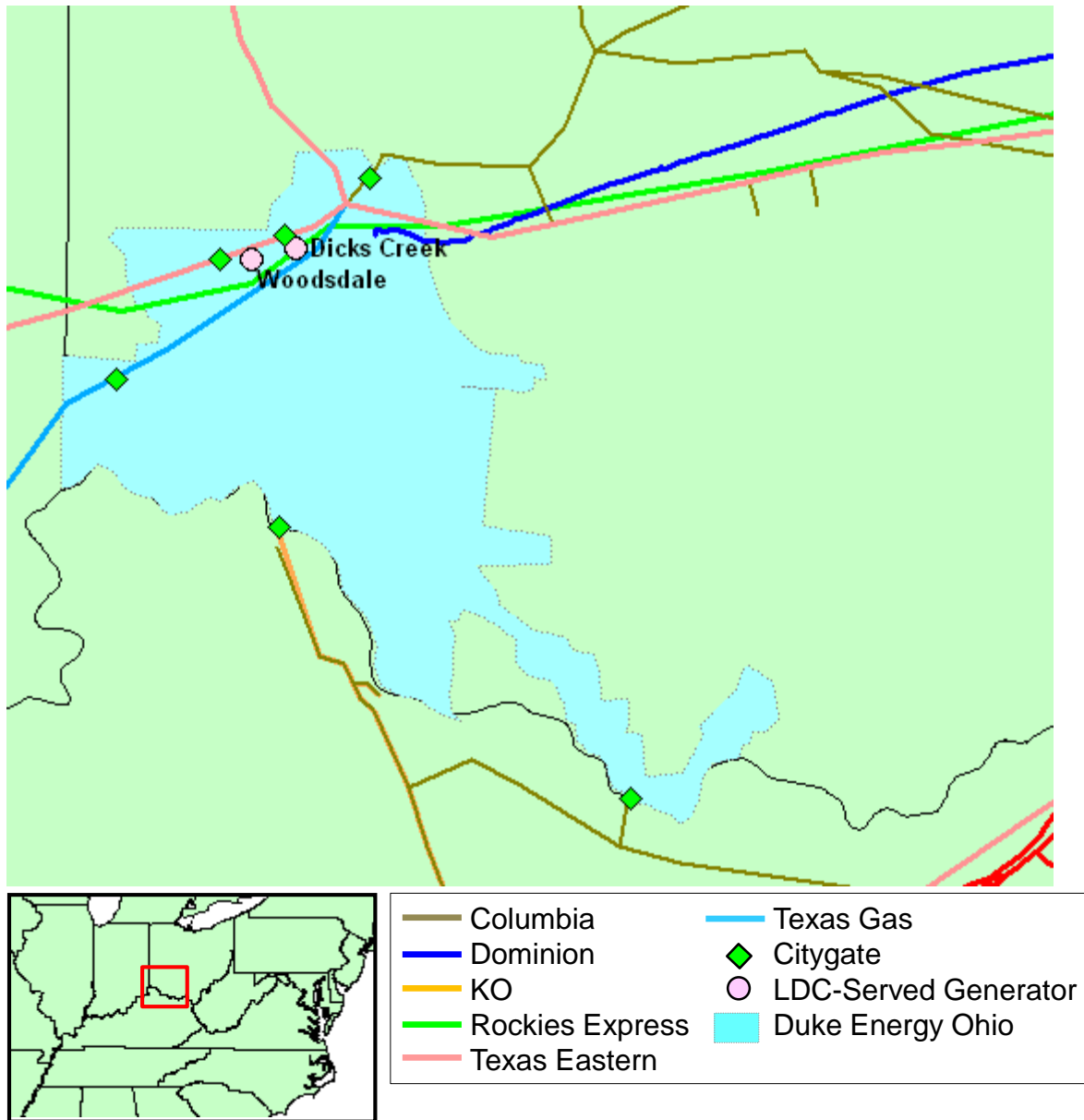


Figure A8-38. Duke Energy Ohio Service Territory

Table A8-57. PJM Generators Served by Duke Energy Ohio

Generator	Capacity (MW)
Dicks Creek	116.5
Woodsdale	489.6

Table A8-58. Duke Energy Ohio Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Cinc Gas & Elec-10	13-10
Columbia Gas	Cinc Gas & Elec-11	13-11
Columbia Gas	Cinc Gas & Elect OP-7	14
KO	Duke Energy	N/A
Texas Eastern	Duke Energy Ohio, Inc.	70521
Texas Eastern	Duke Energy Ohio Inc.	70907
Texas Eastern	Duke Energy Ohio Inc.	72908
Texas Gas	Woodsdale	1234
Texas Gas	Duke Energy OH Shipper De	1229

Easton Utilities Commission (Municipal)

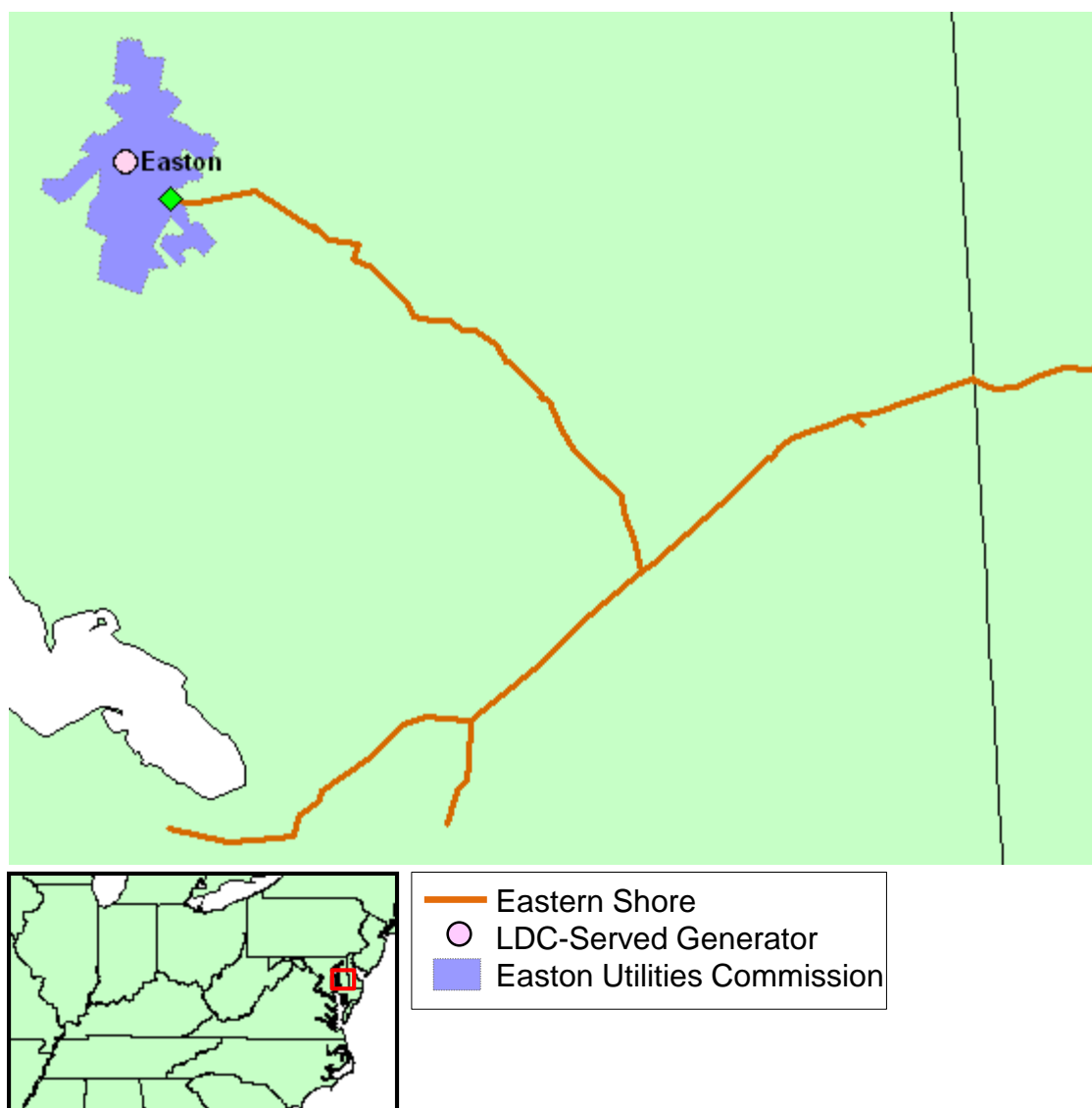


Figure A8-39. Easton Utilities Commission Service Territory

Table A8-59. PJM Generators Served by Easton Utilities Commission

Generator	Capacity (MW)
Easton	21.0

Table A8-60. Easton Utilities Commission Citygate Meters

Pipeline	Meter Name	Meter Number
Eastern Shore ⁵⁶	N/A	N/A

⁵⁶ Eastern Shore’s EBB does not identify meters by location.

Elizabethtown Gas (AGL Resources)

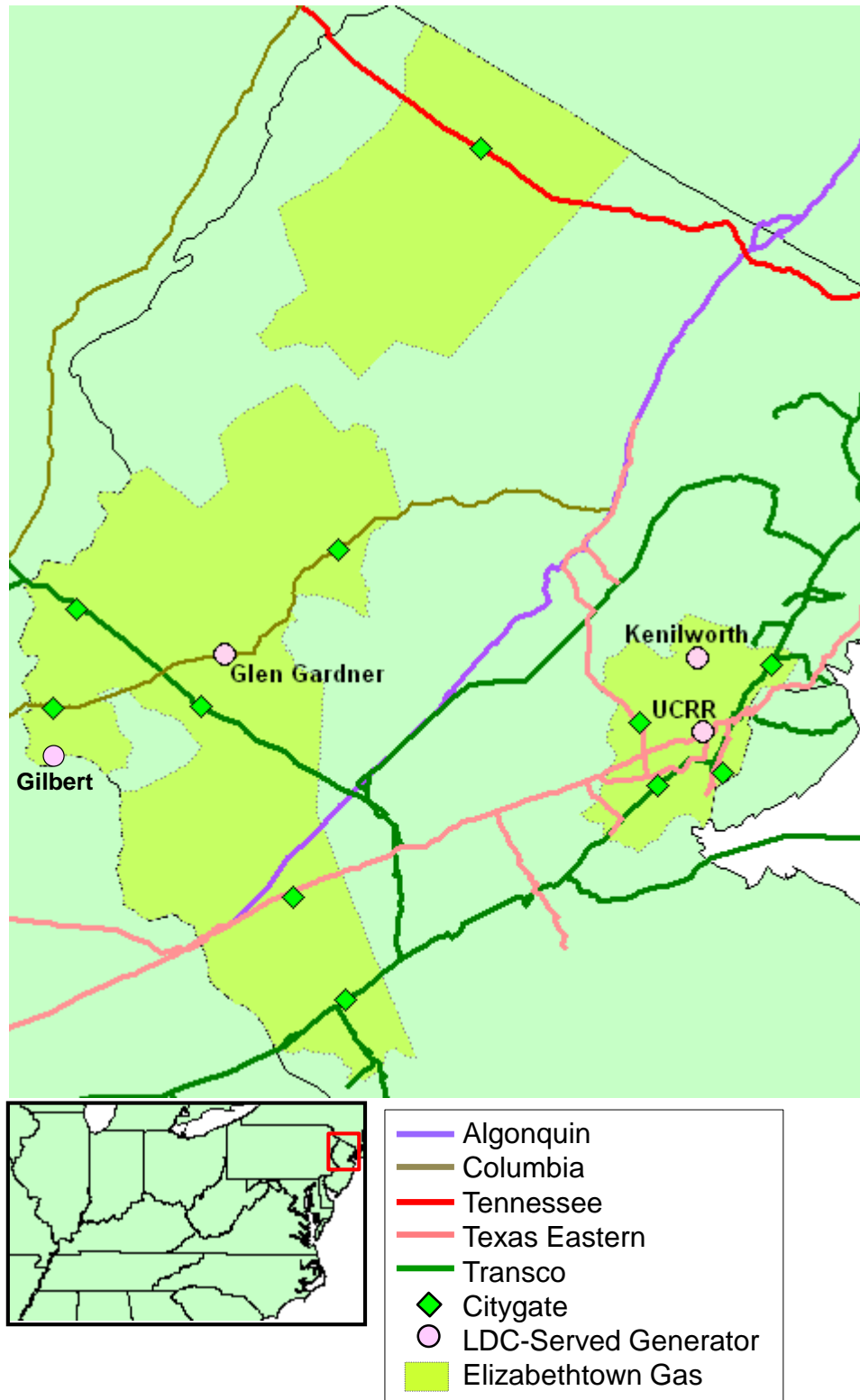


Figure A8-40. Elizabethtown Gas Service Territory

Table A8-61. PJM Generators Served by Elizabethtown Gas

Generator	Capacity (MW)
Gilbert ⁵⁷	606.0
Glen Gardner	156.8
Kenilworth	25.0
Union County Resource Recovery	39.0

Table A8-62. Elizabethtown Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	NUI-Elizabethtown-22	38-22
Columbia Gas	NUI-Elizabethtown-23	38-23
Tennessee	Pivotal/TGP Sussex NJ Sussex	420410
Tennessee	Pivotal/TGP Vernon NJ Sussex	420450
Texas Eastern	Elizabethtown Gas Co. - Elizabeth, NJ	70275
Texas Eastern	Elizabethtown Gas Co. - Ringoes, NJ	70584
Texas Eastern	Elizabethtown Gas Co.-Perth Amboy, NJ	71075
Texas Eastern	Elizabethtown Gas Co. - Union Co., NJ	73062
Texas Eastern	Elizabethtown - Linden, NJ	73187
Transco	Etown Erie Street	9005182
Transco	Etown New Village	9003160
Transco	Elizabethtown	1006559

⁵⁷ Elizabethtown is dependent on supplies from Columbia to maintain pressure to serve the Gilbert plant.

MidAmerican Energy

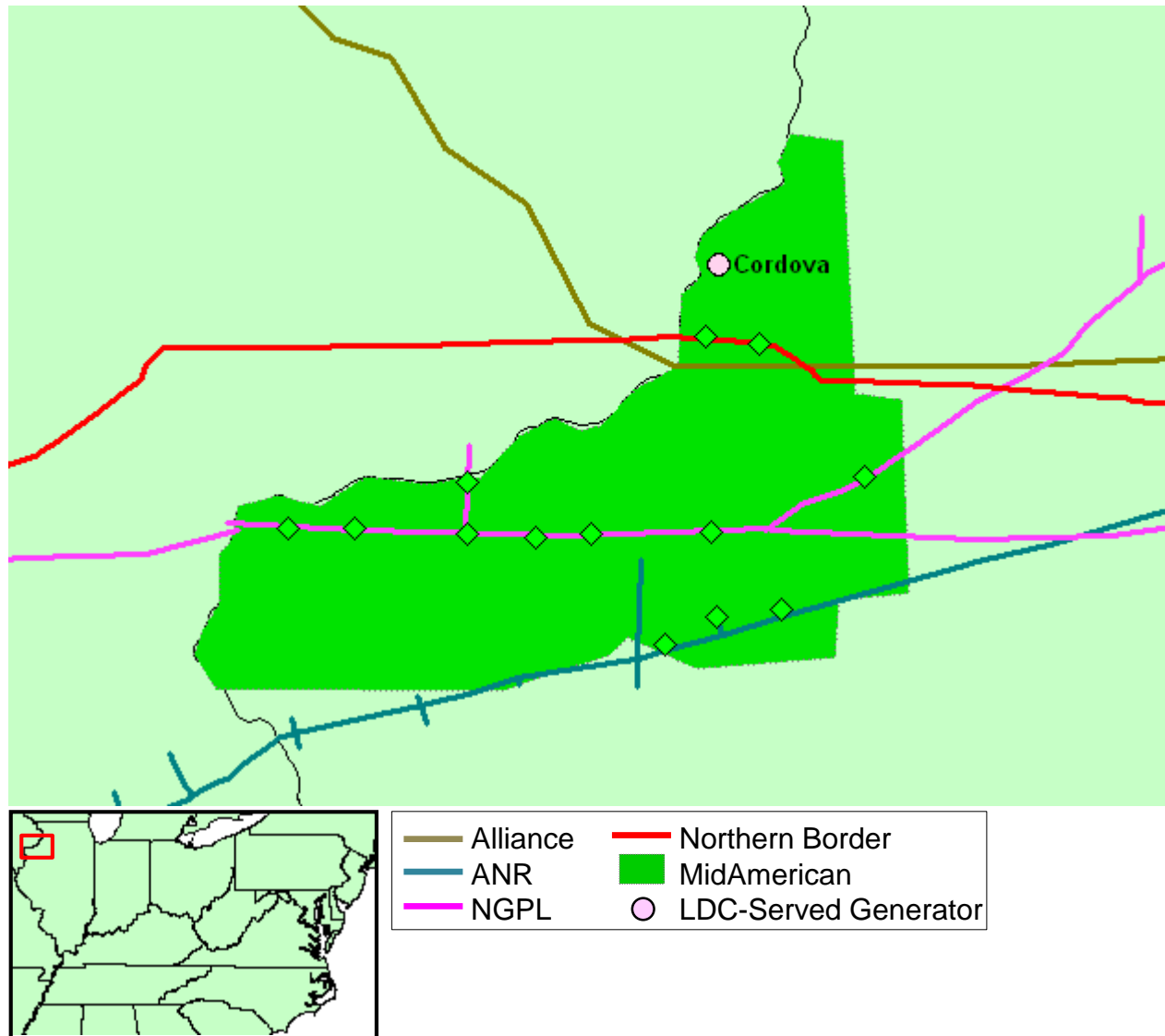


Figure A8-41. MidAmerican Service Territory

Table A8-63. PJM Generators Served by MidAmerican

Generator	Capacity (MW)
Cordova	690.8

Table A8-64. MidAmerican Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	Ophiem	3795
ANR	Andover	3796
ANR	Cambridge	3797
NGPL	MidAmer / NGPL Ill City Rock Island	55
NGPL	MidAmer / NGPL Moline #4 Henry	900046
NGPL	MidAmer / NGPL Moline #3 Henry	900047
NGPL	MidAmer / NGPL Moline #1 Rock Island	900048
NGPL	MIDAMER / NGPL Moline #2 Rock Island	900049
NGPL	MidAmer / NGPL Tylr Rdge Rock Island	900051
NGPL	MidAmer / NGPL Andalusia Rock Island	900052
NGPL	MidAmer / NGPL Edgington Rock Island	900054
Northern Border	GP-MidAmerican	291135
Northern Border	Cordova	288195

Mountaineer Gas Company

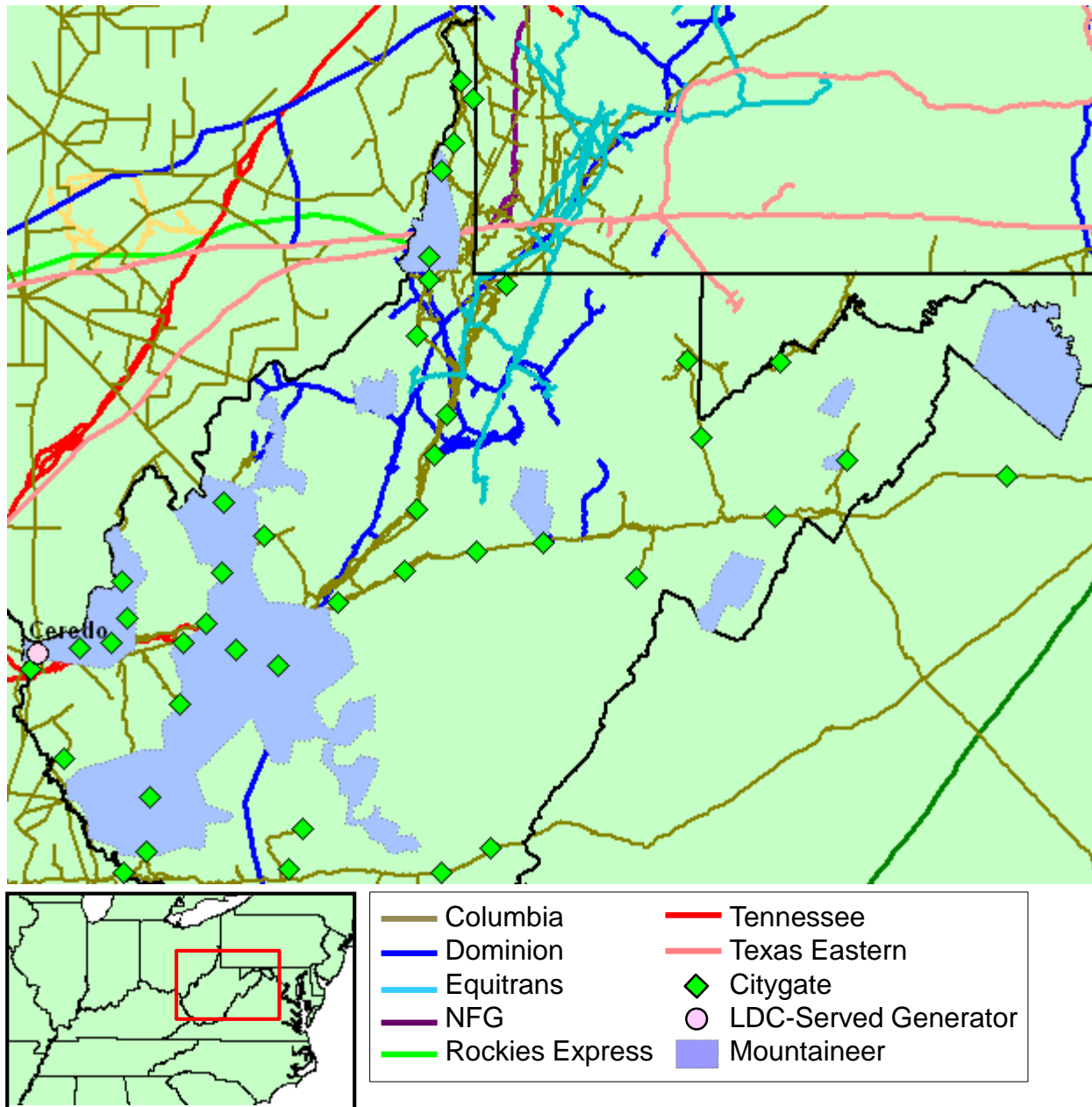


Figure A8-42. Mountaineer Service Territory

Table A8-65. PJM Generators Served by Mountaineer

Generator	Capacity (MW)
Ceredo	519.0

Table A8-66. Mountaineer Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Mountaineer 3-15	27-15
Columbia Gas	Mountaineer 3-16	27-16
Columbia Gas	Mountaineer 3-17	27-17
Columbia Gas	Mountaineer 3-18	27-18
Columbia Gas	Mountaineer 3-19	27-19
Columbia Gas	Mountaineer 10-30	28-30
Columbia Gas	Mountaineer 08-26	29-26
Columbia Gas	Mountaineer 08-27	29-27
Columbia Gas	Mountaineer 08-32	29-32
Columbia Gas	Mountaineer 08-35	29-35
Columbia Gas	Mountaineer 08-40	29-40
Columbia Gas	Alderson P.O.D.	834348
Tennessee	Mtneer/TGP Cabell Transport Cabell	420627
Tennessee	Mtneer/TGP St Alban Sales Kanawha	420615

National Fuel Gas Distribution

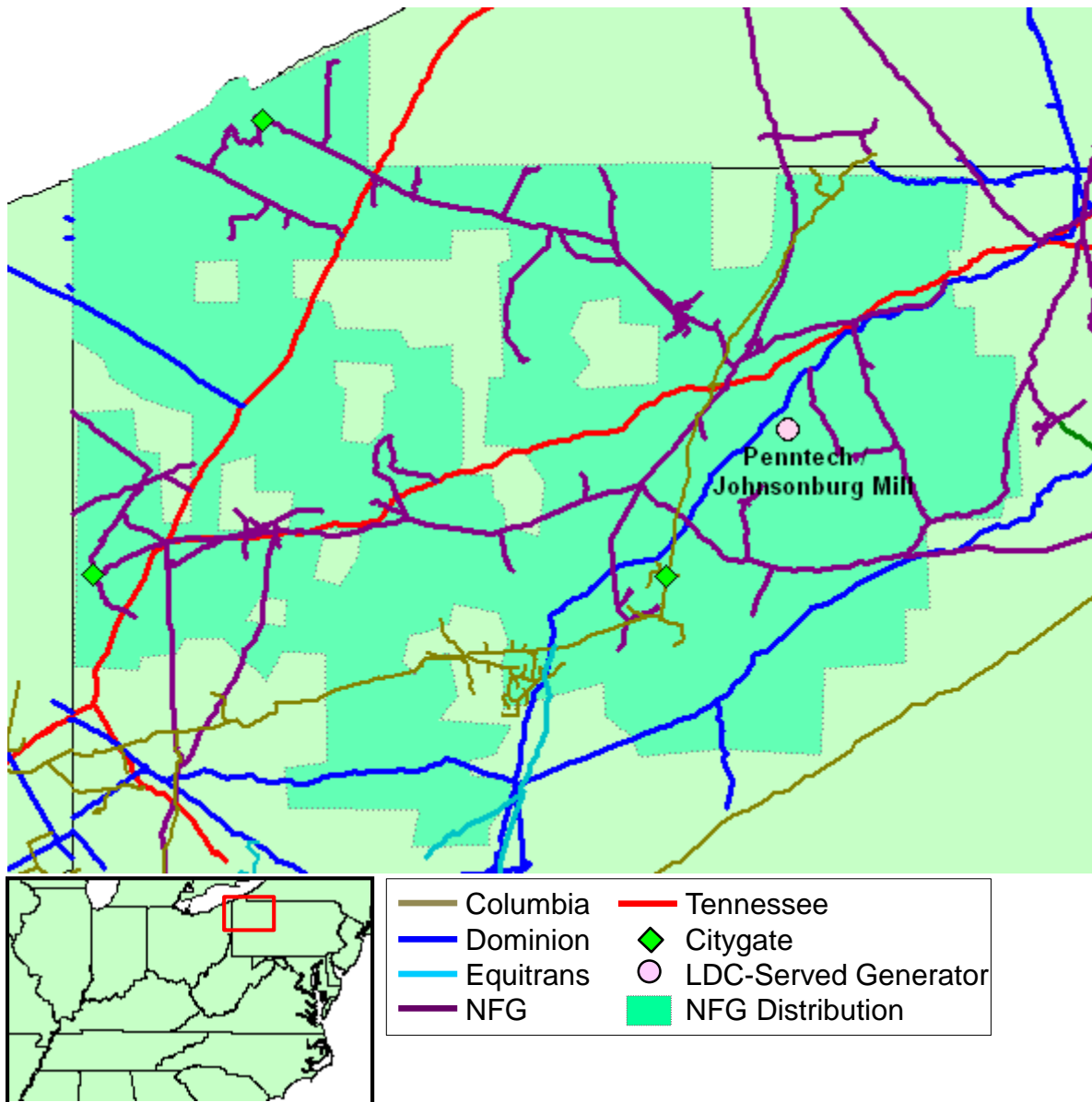


Figure A8-43. NFG Distribution Service Territory

Table A8-67. PJM Generators Served by NFG Distribution

Generator	Capacity (MW)
Penntech / Johnsonburg Mill ⁵⁸	60.0

⁵⁸ Dominion also reports a delivery meter named “Domtar Paper” on its EBB (#21105), operated by Hunt Marcellus LLC.

Table A8-68. NFG Distribution Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	NFG - Dutch Hill	642643
NFG	NFGDC PA (Operational Cap.)	NFGDC PA

New Jersey Natural Gas

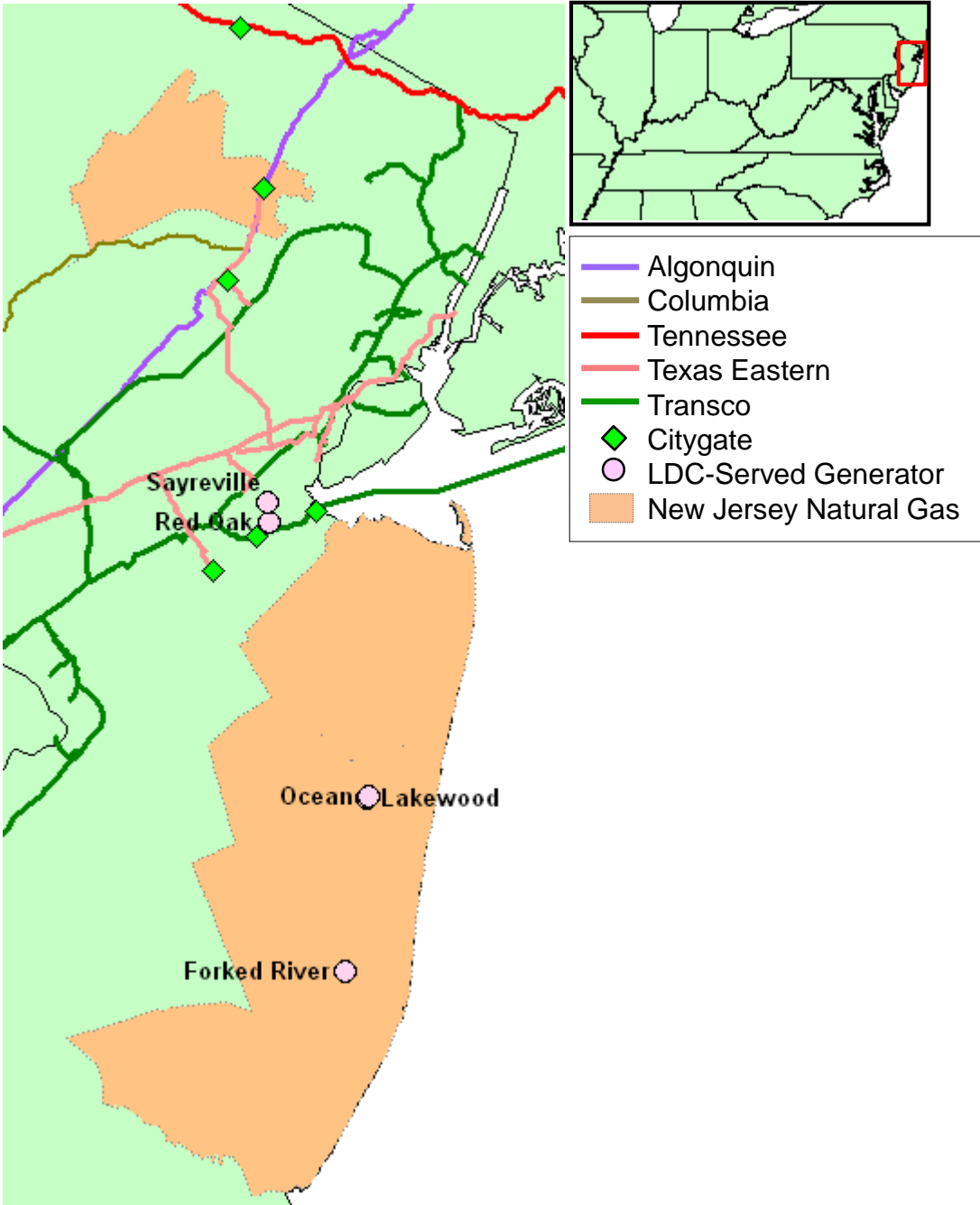


Figure A8-44. New Jersey Natural Gas Service Territory

Table A8-69. PJM Generators Served by New Jersey Natural Gas

Generator	Capacity (MW)
Forked River	76.8
Lakewood	236.0
Ocean	383.0
Red Oak ⁵⁹	750.0
Sayreville	212.4

Table A8-70. New Jersey Natural Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Algonquin	Partroy (Morris,NJ)	1
Columbia Gas	New Jersey Natural	100
Tennessee	NJ Natgs/TGP New Clinton Road NJ Be	420608
Texas Eastern	New Jersey Natural - Freehold, NJ	70953
Texas Eastern	New Jersey Natural - Hanover, NJ	71076
Texas Eastern	New Jersey Natural - Montville, NJ	71423
Texas Eastern	New Jersey Natural - Jamesburg, NJ	72210
Transco	New Jersey Natural	1006678

⁵⁹ New Jersey Natural Gas has received approval from the New Jersey Board of Public Utilities in Docket No. GO13010059 to execute a service agreement with Red Oak (<http://www.state.nj.us/bpu/pdf/boardorders/2013/20130918/9-18-13-2K.pdf>). The service change is expected to occur in fall 2014.

Nicor Gas (AGL Resources)

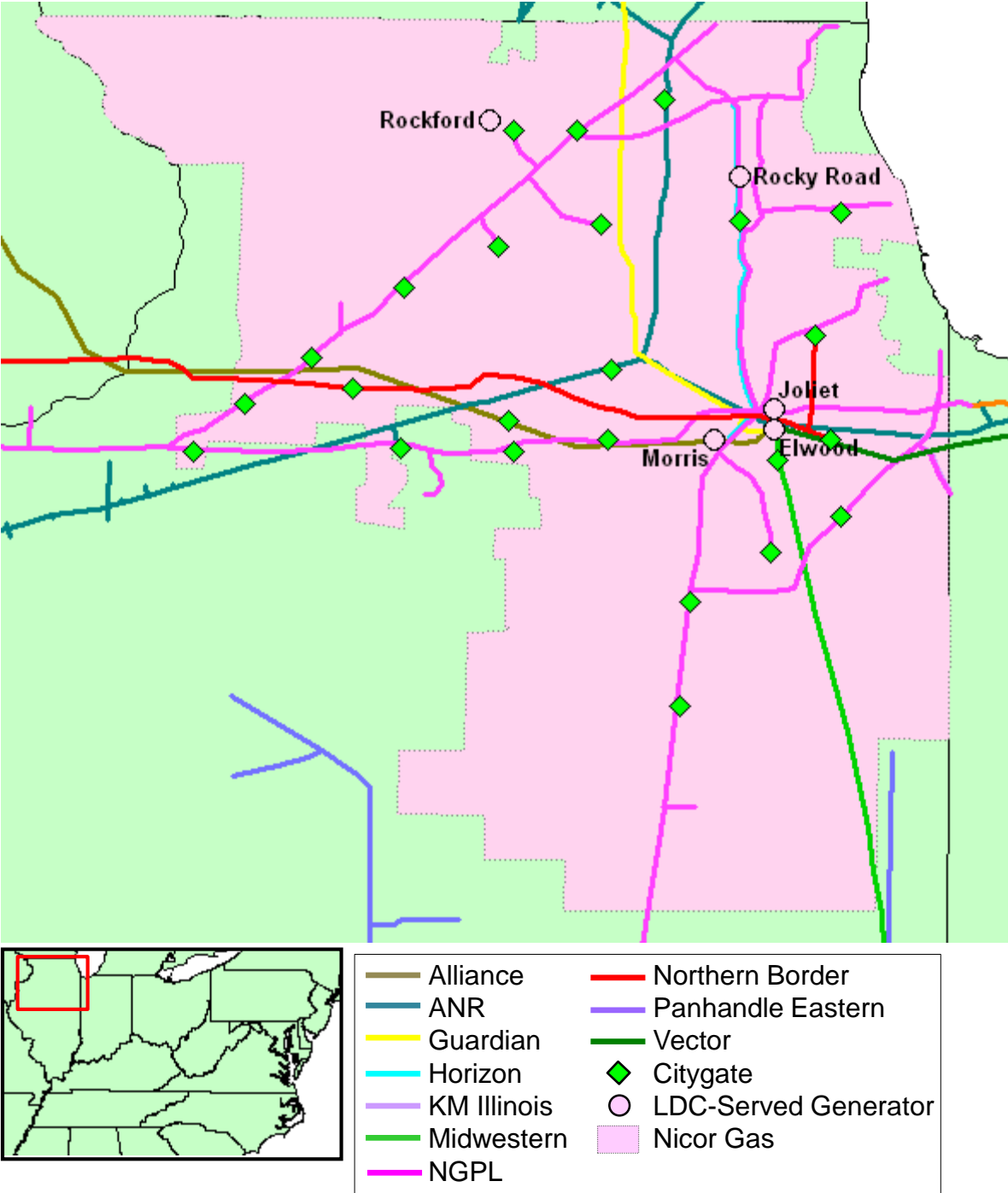


Figure A8-45. Nicor Gas Service Territory

Table A8-71. PJM Generators Served by Nicor Gas

Generator	Capacity (MW)
Elwood	1,728.0
Joliet ⁶⁰	1,320.0
Morris	39.0
Rockford	316.0
Rocky Road	418.9

Table A8-72. Nicor Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Alliance	Nicor/Morris (IL01)	NMRSL
ANR	Nicor Grp 1	N/A
Horizon	NicorGas/Horizon Hwy 176 Mc Henry	39753
Midwestern	Cissna Park	3801
Midwestern	Gilman	3802
Midwestern	Kankakee	3826
Midwestern	Nicor - MBP	330277
Midwestern	Nicor - SA	327805
Midwestern	Nicor CCB	368766
Midwestern	Potomac - Nicor	4131
Midwestern	Rankin	4133
Midwestern	Rexall Chemical	4202
Midwestern	Wilmington	4200
NGPL	Nicorgas / NGPL Franklin Grove Lee	17
NGPL	Nicorgas / NGPL Harmon Lee	20
NGPL	Nicorgas / NGPL Norway La Salle	27
NGPL	Nicorgas / NGPL Rock Island	56
NGPL	Nicorgas / NGPL Farmer City Piatt	2965
NGPL	Nicorgas / NGPL Streamwood Cook	4100
NGPL	Nicorgas / NGPL Hammes Ave Will	4101
NGPL	Nicorgas / NGPL Mound Road Will	4102
NGPL	Nicorgas / NGPL Cicero Ave Cook	4103
NGPL	Nicorgas / NGPL Weber Road Will	4109
NGPL	Nicorgas / NGPL Gougar Road Will	4111
NGPL	Nicorgas / NGPL Central Ave Cook	4115
NGPL	Nicorgas / NGPL West Chicago Du Page	4124
NGPL	Nicorgas / NGPL Chicago Heights Cook	4130
NGPL	Nicorgas / NGPL Park Ridge Cook	4131
NGPL	Nicorgas / NGPL Lawndale Ave Cook	4132
NGPL	Nicorgas / NGPL Caldwell Ave Cook	4134
NGPL	Nicorgas / NGPL Skokie Rd Cook	4142

⁶⁰ Joliet is a coal plant, Nicor delivers natural gas as a startup and stabilizing fuel.

Pipeline	Meter Name	Meter Number
NGPL	Nicorgas / NGPL Riverdale Cook	4143
NGPL	Nicorgas / NGPL Com Ed #9 Will	4219
NGPL	Nicorgas / NGPL Metro San Dist Cook	4226
NGPL	Nicorgas / NGPL CDP	9258
NGPL	Nicorgas / NGPL Nalco Du Page	10654
NGPL	Nicorgas / NGPL Del Troy Grove La Sal	11097
NGPL	Nicorgas / NGPL Bio - Solids Cook	43044
NGPL	Nicorgas / NGPL Volo Lake	900002
NGPL	Nicorgas / NGPL Barrington Lake	900003
NGPL	Nicorgas / NGPL Mc Henry Mc Henry	900004
NGPL	Nicorgas / NGPL Woodstock Mc Henry	900005
NGPL	Nicorgas / NGPL Richmond Mc Henry	900006
NGPL	Nicorgas / NGPL Hebron Mc Henry	900009
NGPL	Nicorgas / NGPL Belvidere Boone	900011
NGPL	Nicorgas / NGPL Rockford Winnebago	900012
NGPL	Nicorgas / NGPL Sycamore De Kalb	900013
NGPL	Nicorgas / NGPL Kings Ogle	900014
NGPL	Nicorgas / NGPL Rochelle Ogle	900015
NGPL	Nicorgas / NGPL Oregon Ogle	900016
NGPL	Nicorgas / NGPL Dixon Lee	900018
NGPL	Nicorgas / NGPL South Dixon Lee	900019
NGPL	Nicorgas / NGPL Rock Falls Lee	900021
NGPL	Nicorgas / NGPL Tampico Whiteside	900022
NGPL	Nicorgas / NGPL Prophetstown Henry	900024
NGPL	Nicorgas / NGPL Geneseo Henry	900025
NGPL	Nicorgas / NGPL Morris Grundy	900026
NGPL	Nicorgas / NGPL Wedron La Salle	900028
NGPL	Nicorgas / NGPL Ottawa La Salle	900029
NGPL	Nicorgas / NGPL Princeton Bureau	900038
NGPL	Nicorgas / NGPL South Geneseo Henry	900045
NGPL	Nicorgas / NGPL Manteno Kankakee	900131
NGPL	Nicorgas / NGPL Cabery Kankakee	900132
NGPL	Nicorgas / NGPL Minooka Will	900133
NGPL	Nicorgas / NGPL Des Plaines Chem Grun	900134
NGPL	Nicorgas / NGPL Goose Lake Grundy	900135
NGPL	Nicorgas / NGPL South Morris Grundy	900136
NGPL	Nicorgas / NGPL Mazon Grundy	900137
NGPL	Nicorgas / NGPL Dwight Livingston	900138
NGPL	Nicorgas / NGPL Saunemin Livingston	900139
NGPL	Nicorgas / NGPL Pontiac Livingston	900140
NGPL	Nicorgas / NGPL Fairbury Livingston	900141
NGPL	Nicorgas / NGPL Cropsey Mc Lean	900142
NGPL	Nicorgas / NGPL Anchor Mc Lean	900143

Pipeline	Meter Name	Meter Number
NGPL	Nicorgas / NGPL Saybrook Mc Lean	900144
NGPL	Nicorgas / NGPL Bellflower Mc Lean	900145
NGPL	Nicorgas / NGPL Marengo Mc Henry	901043
NGPL	Nicorgas / NGPL Rowell Ave Will	904105
NGPL	Nicorgas / NGPL Roselle Road Cook	904106
NGPL	Nicorgas / NGPL Amoco Will	904107
NGPL	Nicorgas / NGPL Eola Road Du Page	904117
NGPL	Nicorgas / NGPL Touhy Ave Cook	904121
NGPL	Nicorgas / NGPL Summit Ave Cook	904122
NGPL	Nicorgas / NGPL Park Forest Cook	904125
NGPL	Nicorgas / Ngpl 170th St Cook	904135
NGPL	Nicorgas / Ngpl Ridgeland Ave Cook	904137
NGPL	Nicorgas / Ngpl Burnham Cook	904147
NGPL	Nicorgas / Ngpl Stepan Chemical Will	904205
NGPL	Nicorgas / Ngpl Ups Cook	904209
NGPL	Nicorgas / Ngpl Joliet Edison No Will	904210
NGPL	Nicorgas / Ngpl Hodgkins Cook	904829
Northern Border	Troy Grove	227980
Northern Border	Minooka	227975
Panhandle Eastern	Northern Illinois Gas – Atlas	02338

North Shore Gas

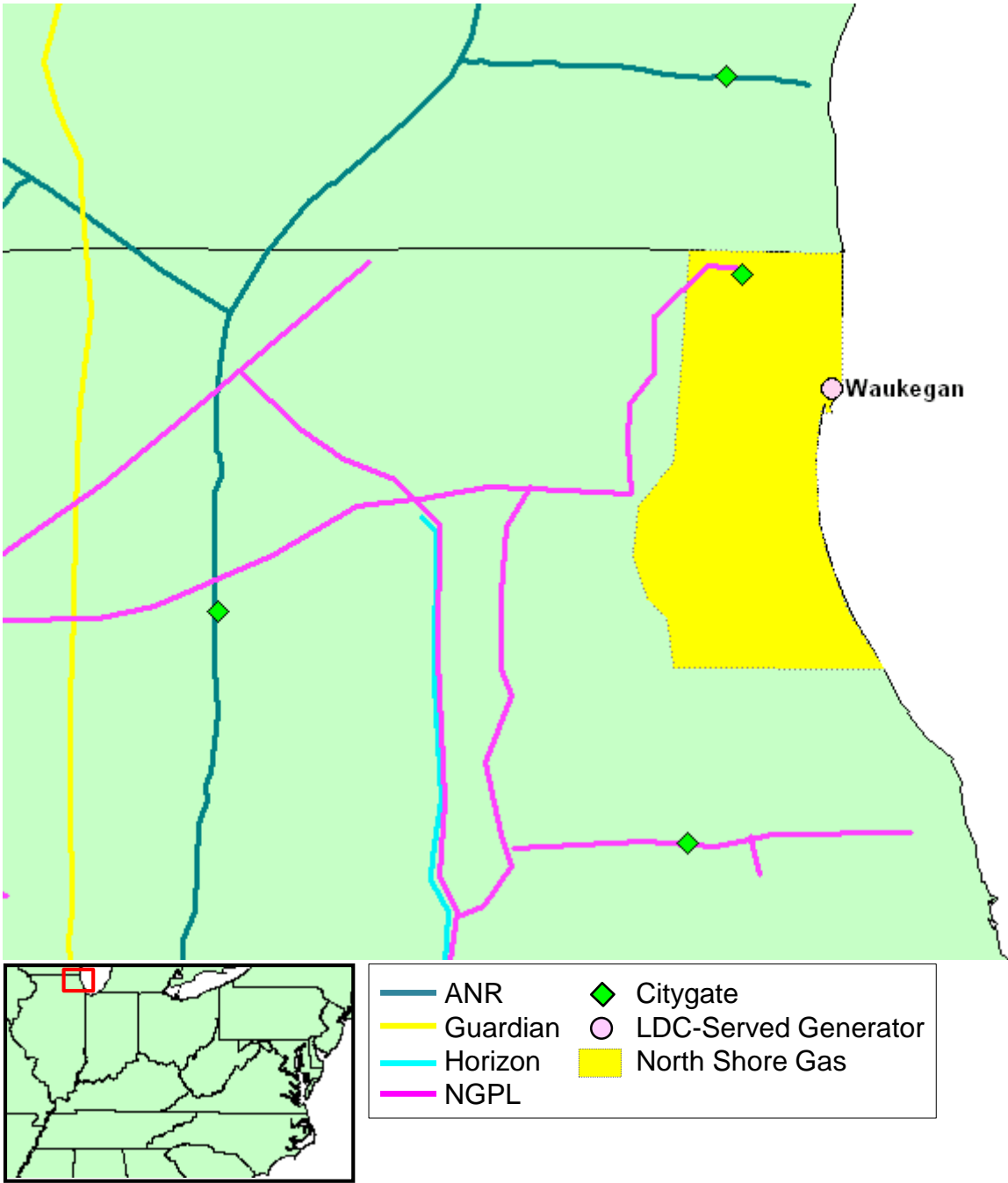


Figure A8-46. North Shore Service Territory

Table A8-73. PJM Generators Served by North Shore

Generator	Capacity (MW)
Waukegan ⁶¹	802.7

Table A8-74. North Shore Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	Paris - North Shore	261574
ANR	Hampshire Int	183670
NGPL	No Shore / NGPL Tonne Rd Cook	7866
NGPL	No Shore / NGPL CDP	9254
NGPL	No Shore / NGPL Grayslake Lake	900001

⁶¹ Waukegan is primarily a coal plant, one unit can burn both coal and natural gas and another unit uses natural gas for ignition.

Northeast Ohio Natural Gas

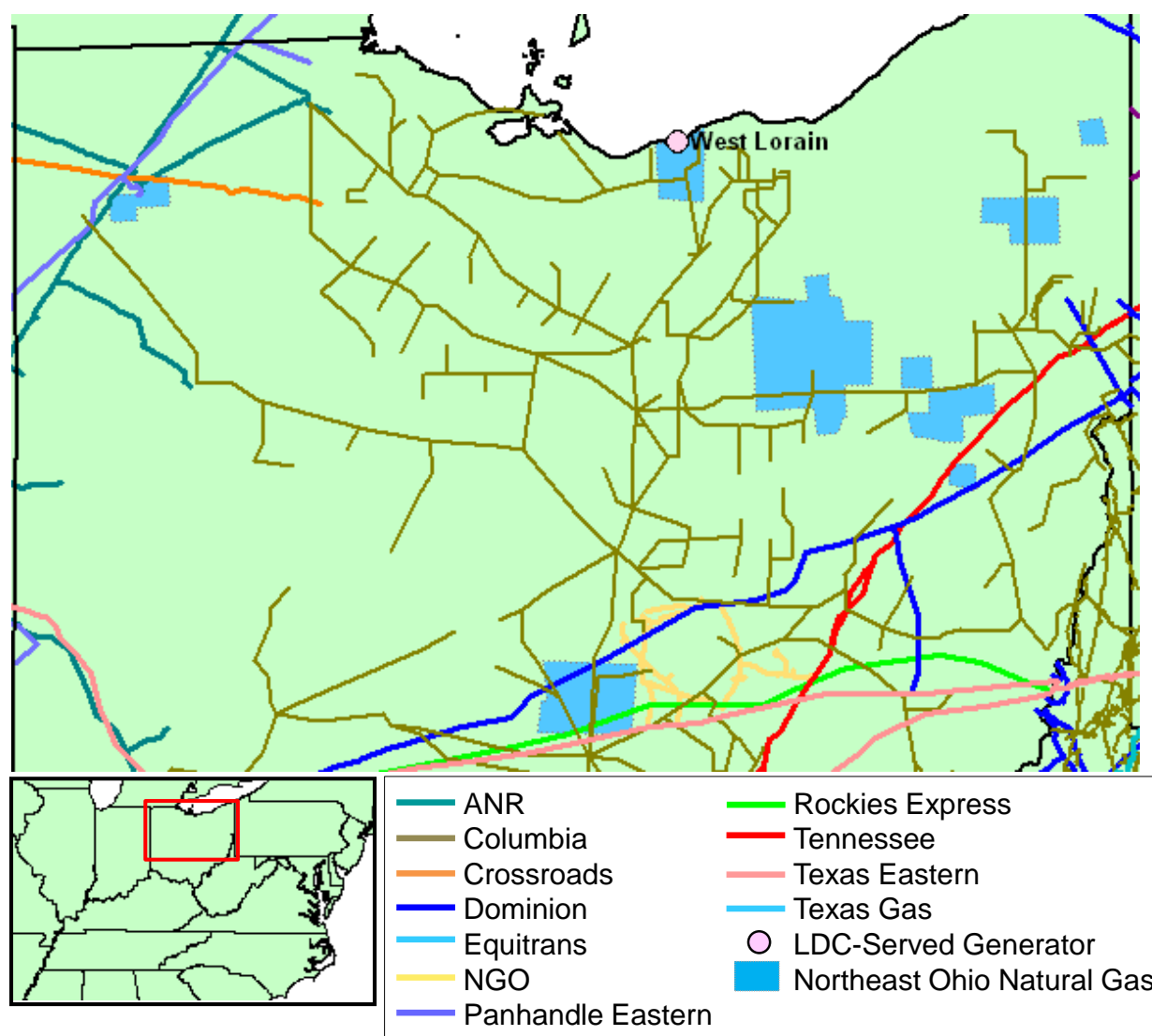


Figure A8-47. Northeast Ohio Natural Gas Service Territory

Table A8-75. PJM Generators Served by Northeast Ohio Natural Gas

Generator	Capacity (MW)
West Lorain ⁶²	555.6

⁶² West Lorain is served by a dedicated lateral from Columbia Gas.

Table A8-76. Northeast Ohio Natural Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	First Energy-West Lorain	736798
Columbia Gas	Northeast Ohio-4	118-4
Columbia Gas	Northeast Ohio-5	118-5
Columbia Gas	Northeast Ohio-9	118-9
Columbia Gas	EDC Timken	730886
Columbia Gas	Anchor Hocking #1	732999
Columbia Gas	NW Fairfield	734952
Columbia Gas	Gas Transport OP-7	98

PECO Energy

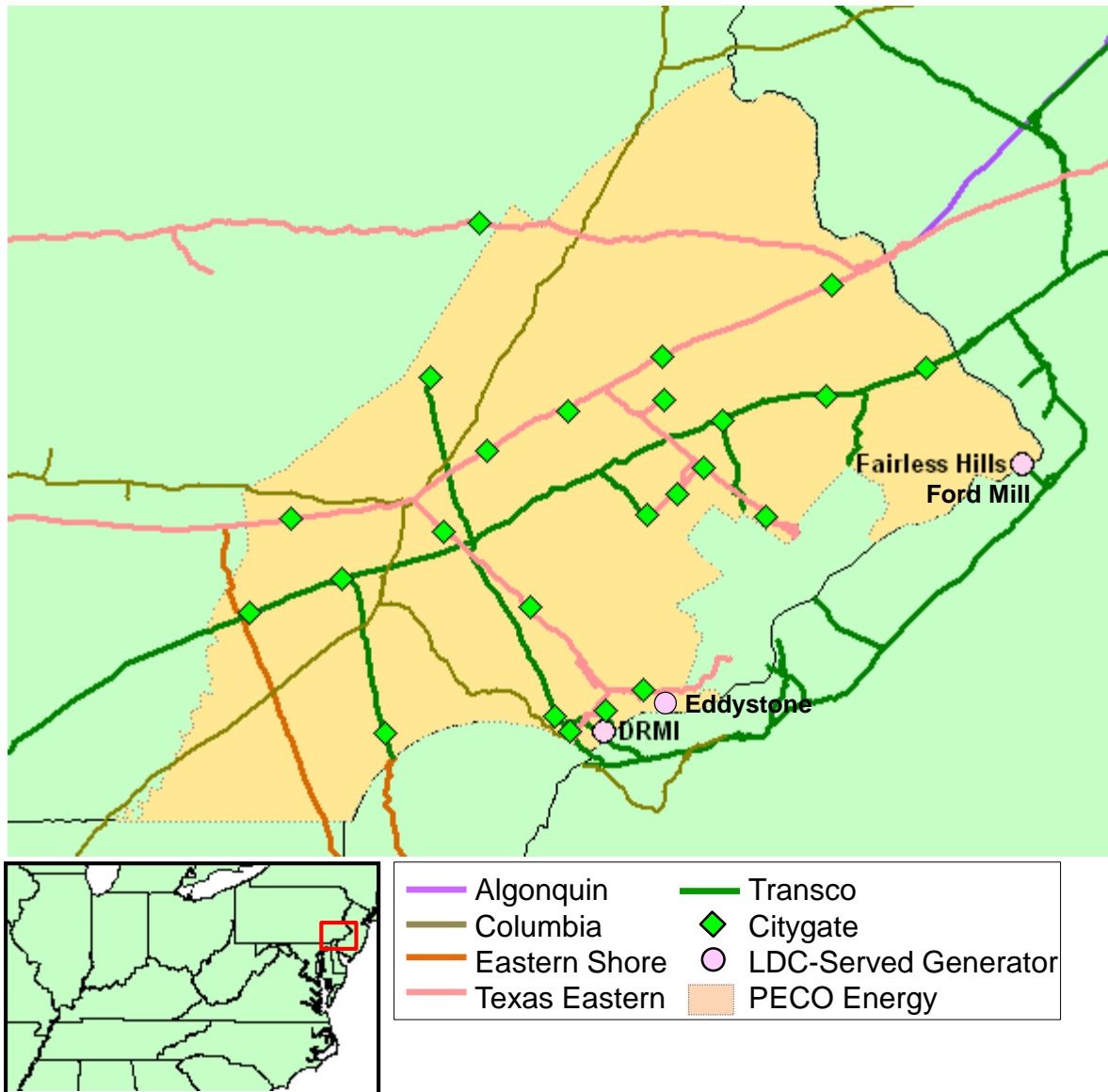


Figure A8-48. PECO Energy Service Territory

Table A8-77. PJM Generators Served by PECO Energy

Generator	Capacity (MW)
DRMI	90.0
Eddystone ⁶³	1,489.2
Fairless Hills	60.0
Ford Mill (Fairless Works) ⁶⁴	1,077.7

⁶³ Eddystone is served by a dedicated lateral from Texas Eastern.

⁶⁴ Fairless Works is served by a dedicated lateral from Transco.

Table A8-78. PECO Energy Citygate Meters

Pipeline	Meter Name	Meter Number
Texas Eastern	PECO Energy - Cromby Generation, PA	70033
Texas Eastern	PECO Energy - Eddystone, Delaware Co., PA	72930
Texas Eastern	PECO Energy - Tilghman St. - Chester, PA	70035
Texas Eastern	PECO Energy - West Conshohocken, PA	70036
Texas Eastern	PECO - Alan Wood Steel, PA	70517
Texas Eastern	PECO Energy - E. Greenville, PA	71220
Texas Eastern	PECO Energy - Planebrook Chester CO., PA	72004
Texas Eastern	PECO Energy - Hatfield, PA	72405
Texas Eastern	PECO Energy - Montgomery Co., PA	72636
Texas Eastern	PECO Energy - Collegeville, PA.	72745
Texas Eastern	PECO - Doylestown, Bucks Co., PA	72979
Texas Eastern	PECO Energy - Montgomery Co., PA (Center Point)	73136
Texas Eastern	PECO -- Brookhaven, PA	73153
Texas Eastern	PECO Energy Company - Hershey Mills, Chester Co., PA	73154
Texas Eastern	PECO - Eagle, Chester Co., PA. (Del)	73212
Texas Eastern	PECO - Skippack Delivery - Montgomery, PA.	73507
Transco	Fairless Enrgy M6309 MP 2.7	9000564
Transco	Philadelphia Electric	1006555

Peoples Gas Light and Coke (Integrys Energy Services)

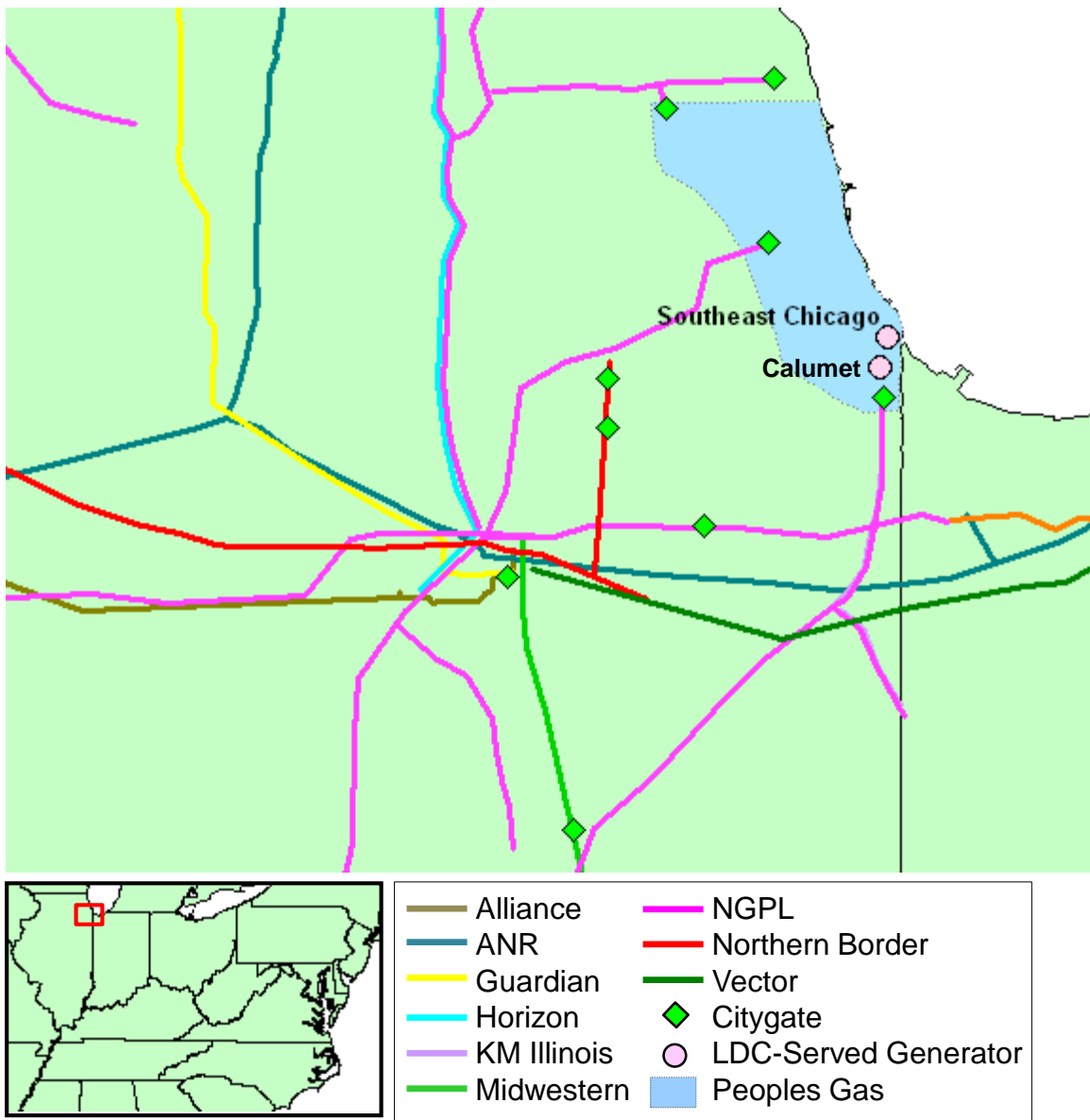


Figure A8-49. Peoples Gas Service Territory

Table A8-79. PJM Generators Served by Peoples Gas

Generator	Capacity (MW)
Calumet (River Energy)	386.0
Southeast Chicago	407.2

Table A8-80. Peoples Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Alliance	Peoples/Elwood (IL04)	ELWSL
ANR	PGL&C - Group 1	295958
Guardian	Joliet Peoples	359508
KM Illinois	PGLC/KMIP Cook	43396
Midwestern	Union Hill	71145
NGPL	PGLC / NGPL Manlove Piatt	3857
NGPL	PGLC / NGPL 138th St Cook	4153
NGPL	PGLC / NGPL O'Hare #1 Cook	4156
NGPL	PGLC / NGPL 112th St Cook	4158
NGPL	PGLC / NGPL O'Hare #2 Cook	4166
NGPL	PGLC / NGPL National Salad Oil Cook	4351
NGPL	PGLC / NGPL Manlove Champaign	37281
NGPL	PGLC / NGPL Oakton Street Cook	904174
NGPL	PGLC / NGPL SNG Plant Will	904358
NGPL	PGLC / NGPL Crawford Cook	904360
NGPL	PGLC / NGPL Calumet #2 Cook	904362
NGPL	PGLC / NGPL Marblehead Lime Cook	904370
NGPL	PGLC / NGPL CDP	909285
Northern Border	Noel	473823
Northern Border	Manhattan	233632
Trunkline	BP - Peoples (80601)	BPEOP
Trunkline	Champaign Transport - Peoples	80601

Peoples Natural Gas

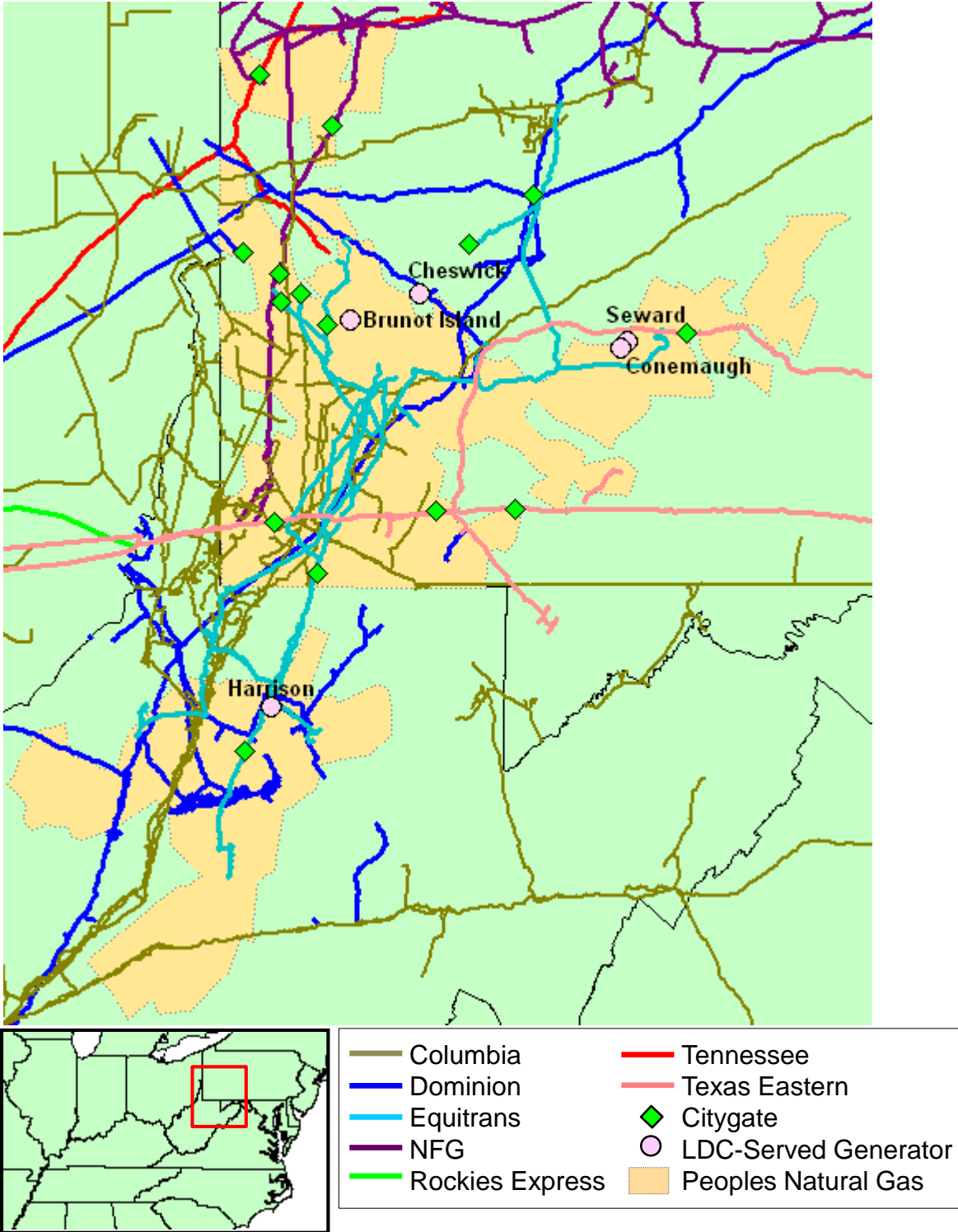


Figure A8-50. Peoples Natural Gas Service Territory

Table A8-81. PJM Generators Served by Peoples Natural Gas

Generator	Capacity (MW)
Brunot Island	340.9
Cheswick ⁶⁵	630.0
Conemaugh ⁶⁶	1,872.0
Harrison ⁶⁷	2,052.0
Seward	500.0

Table A8-82. Peoples Natural Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Dominion	Peoples	20200
Equitrans	Clever Road	11079
Equitrans	EGC PA - Tepe (Del)	11089
Equitrans	EGC PA - Tepe (Sys Sup)	11090
Equitrans	EGC WV - Comet	22873
Equitrans	Hanson Aggregates	17177
Equitrans	Jones Farm	5000E
Equitrans	PNG 3P Meter	PNGCG-3P
Equitrans	PNG System Supply Meter	PNGCG-SS
NFG	Peoples - Peoples Gas City Gate	PNGCG
Texas Eastern	Peoples Nat - Somerset, PA	70051
Texas Eastern	Peoples Nat - Claysburg, PA	70323
Texas Eastern	Equitable Gas Co. - Delmont, PA	70355
Texas Eastern	Peoples Nat - Ebensburg, PA	70458
Tennessee	Peoples/TGP Pittsburgh Terminal PA	420199
Tennessee	Peoples/TGP Pulaski Sales Mercer	420542

⁶⁵ Cheswick is a coal plant, Peoples Natural Gas delivers natural gas for ignition.

⁶⁶ Conemaugh is a coal plant, Peoples Natural Gas delivers natural gas for ignition.

⁶⁷ Harrison is a coal plant, Peoples Natural Gas delivers natural gas for ignition.

Philadelphia Gas Works

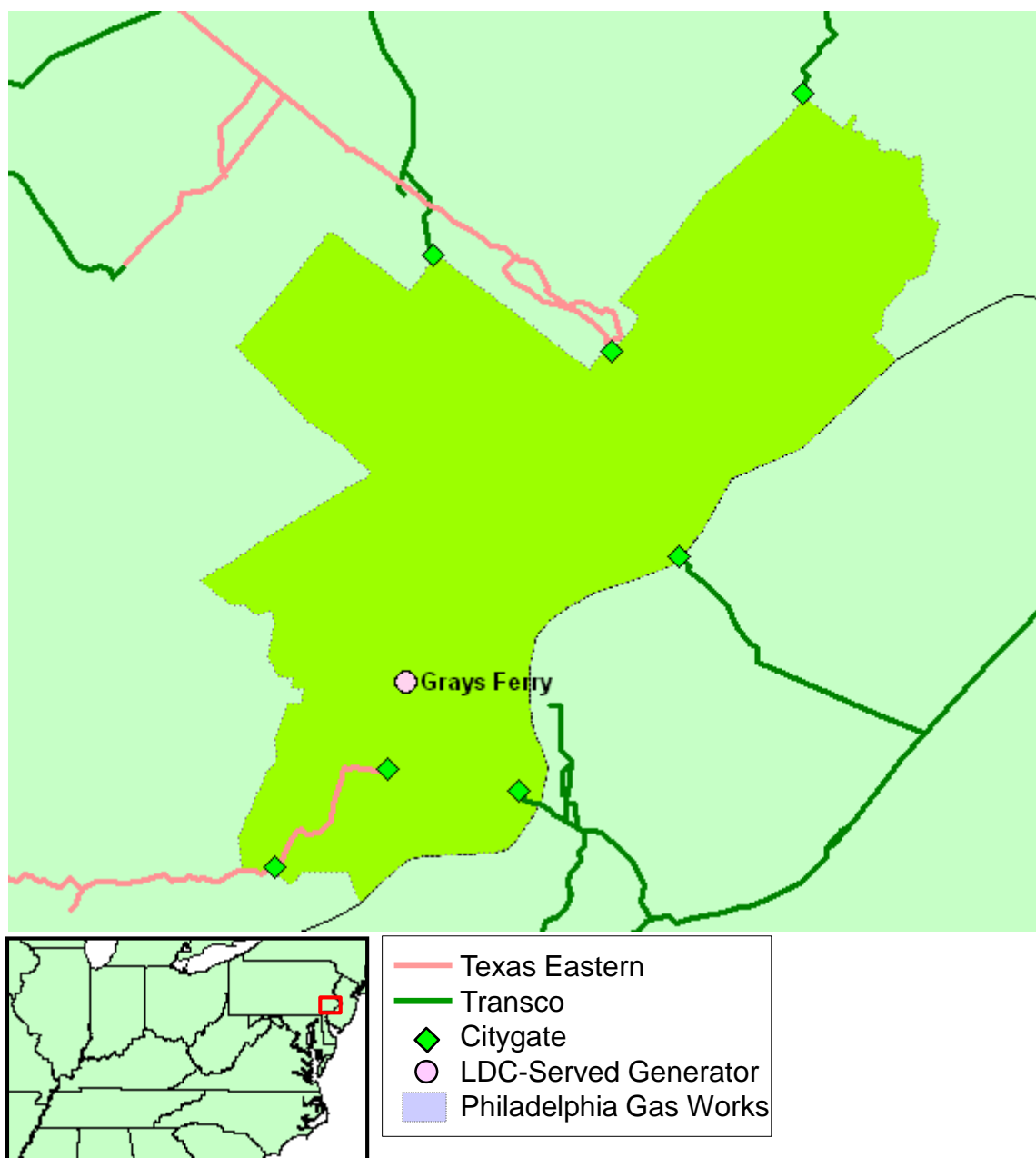


Figure A8-51. Philadelphia Gas Works Service Territory

Table A8-83. PJM Generators Served by Philadelphia Gas Works

Generator	Capacity (MW)
Grays Ferry ⁶⁸	157.9

⁶⁸ Grays Ferry is served via a dedicated lateral from Texas Eastern’s Harknes Point delivery meter.

Table A8-84. Philadelphia Gas Works Citygate Meters

Pipeline	Meter Name	Meter Number
Texas Eastern	Philadelphia Gas Works - Point Breeze,PA	70030
Texas Eastern	Philadelphia Gas Works - Levick St., PA	70034
Texas Eastern	Philadelphia Gas Works Penrose (Eastwick)-Philadelphia, PA	71682
Texas Eastern	PGW - Harkness Point - Philadelphia, PA	73060
Transco	Philadelphia Gas Wrk	1006621

Piedmont Natural Gas

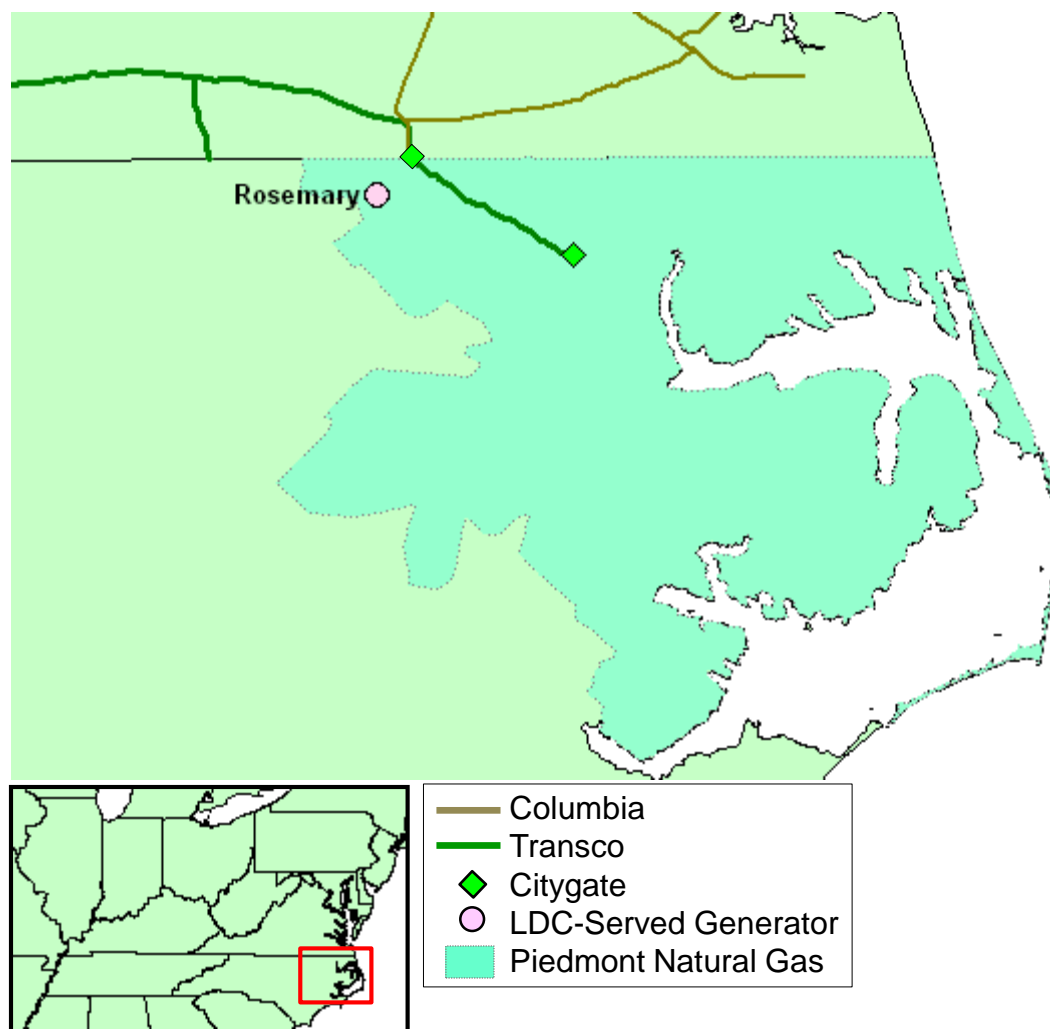


Figure A8-52. Piedmont Natural Gas Service Territory in PJM

Table A8-85. PJM Generators Served by Piedmont

Generator	Capacity (MW)
Rosemary	180.0

Table A8-86. Piedmont Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Pleasant Hill-TCO	30NC
Transco	Piedmont	1006576

PPL Interstate Energy



Figure A8-53. PPL Interstate Energy Facilities in PJM

Table A8-87. PJM Generators Served by PPL Interstate Energy

Generator	Capacity (MW)
Lower Mount Bethel	582.0
Martins Creek	1,701.0

Table A8-88. PPL Interstate Energy Receipt Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Gilbert	634545
Texas Eastern	I.E.C. - Bucks Co., PA	73096
Transco	Lower Mud Run M6316 MP 43.09	900071

Public Service Electric & Gas

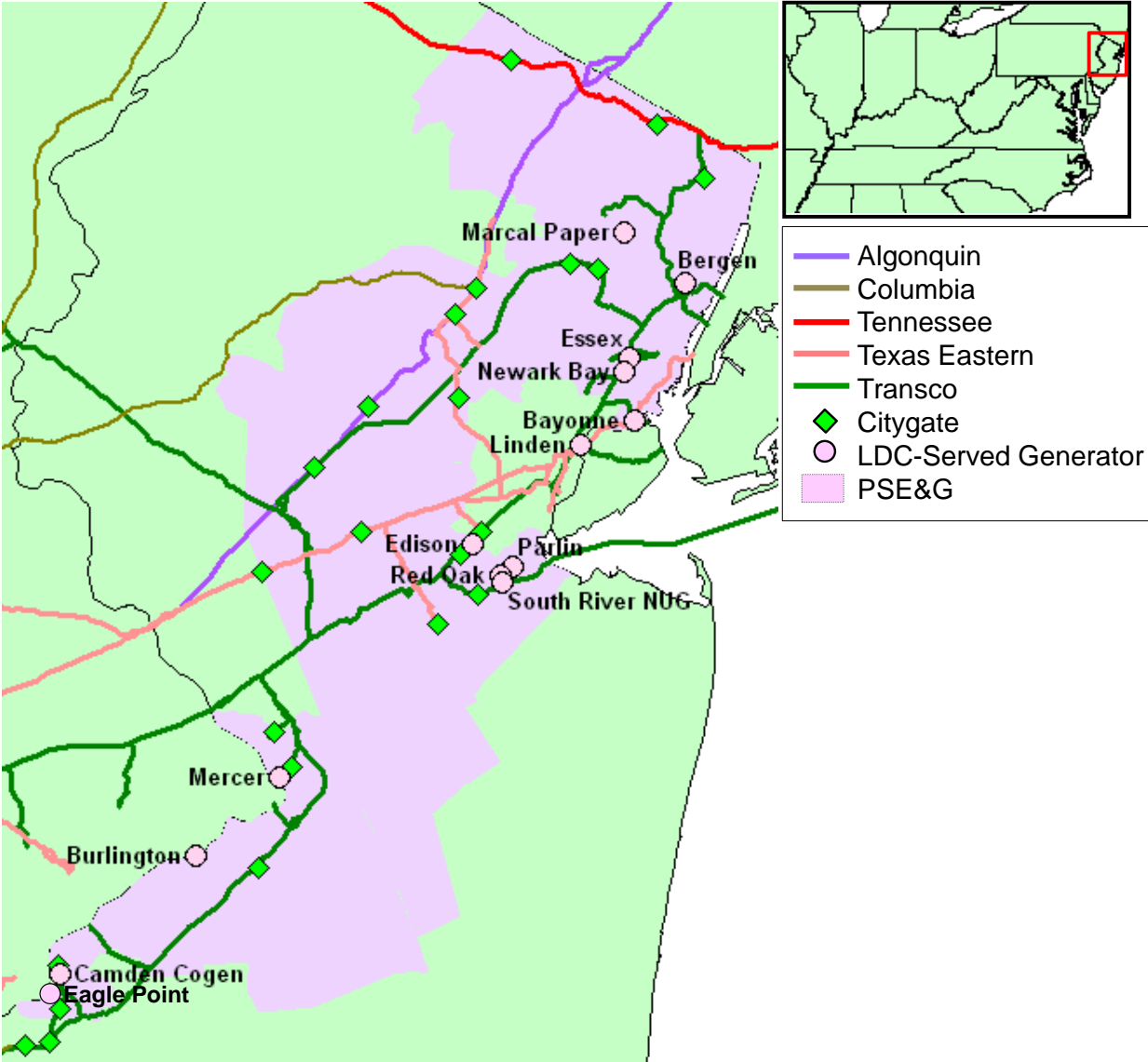


Figure A8-54. Public Service Electric & Gas Service Territory

Table A8-89. PJM Generators Served by PSE&G⁶⁹

Generator	Capacity (MW)
Bayonne	160.0
Bergen	1,399.6
Burlington	242.0
Camden Cogen	160.0
Eagle Point	223.0
Edison	502.2
Essex	595.8
Linden	384.4
Marcal Paper	65.0
Mercer	652.8
Newark Bay	156.0
Parlin	135.0
Red Oak ⁷⁰	750.0
South River NUG	290.0

⁶⁹ PSE&G, with Elizabethtown, also serves the Linden Cogen unit (705 MW) that is electrically dedicated to Manhattan under a contract with Con Edison.

⁷⁰ New Jersey Natural Gas has received approval from the New Jersey Board of Public Utilities in Docket No. GO13010059 to execute a service agreement with Red Oak (<http://www.state.nj.us/bpu/pdf/boardorders/2013/20130918/9-18-13-2K.pdf>). The service change is expected to occur in fall 2014.

Table A8-90. PSE&G Citygate Meters

Pipeline	Meter Name	Meter Number
Algonquin	Bernards (Somerset,NJ)	55
Algonquin	Morris (Morris,NJ)	56
Columbia Gas	Parsippany	638822
Columbia Gas	West Deptford/PSEG	91A
Tennessee	PSEG/TGP Ramsey NJ Bergen	420226
Tennessee	PSEG/TGP Ringwood NJ Passaic	420516
Tennessee	PSEG/TGP West Milford NJ Passaic	420339
Texas Eastern	Public Service - South Plainfield, NJ	70057
Texas Eastern	Public Service - Sewaren, NJ	70066
Texas Eastern	Public Service - Linden, NJ	70128
Texas Eastern	Public Service - Central Works, NJ	70449
Texas Eastern	Public Service - Hanover, NJ	70949
Texas Eastern	Public Service - Bound Brook, NJ	71196
Texas Eastern	Public Service - Wanaque, NJ	71209
Texas Eastern	Public Service - Hillsborough, NJ	71464
Texas Eastern	Public Service - Woodbridge,NJ	72263
Texas Eastern	Public Service - Jamesburg - Middlesex Co., NJ	72944
Texas Eastern	Public Service - Jamesburg - Middlesex Co., NJ	72944
Texas Eastern	Mr 128 Upgrade (Public Service - Linden, NJ) Del	74128
Transco	PSE&G Hamilton	9002360
Transco	PSEG-Chelton Cogen	9006042
Transco	Public Service E&G	1006386
Transco	PSE&G Piles Crk	1007335

South Jersey Gas (South Jersey Industries)

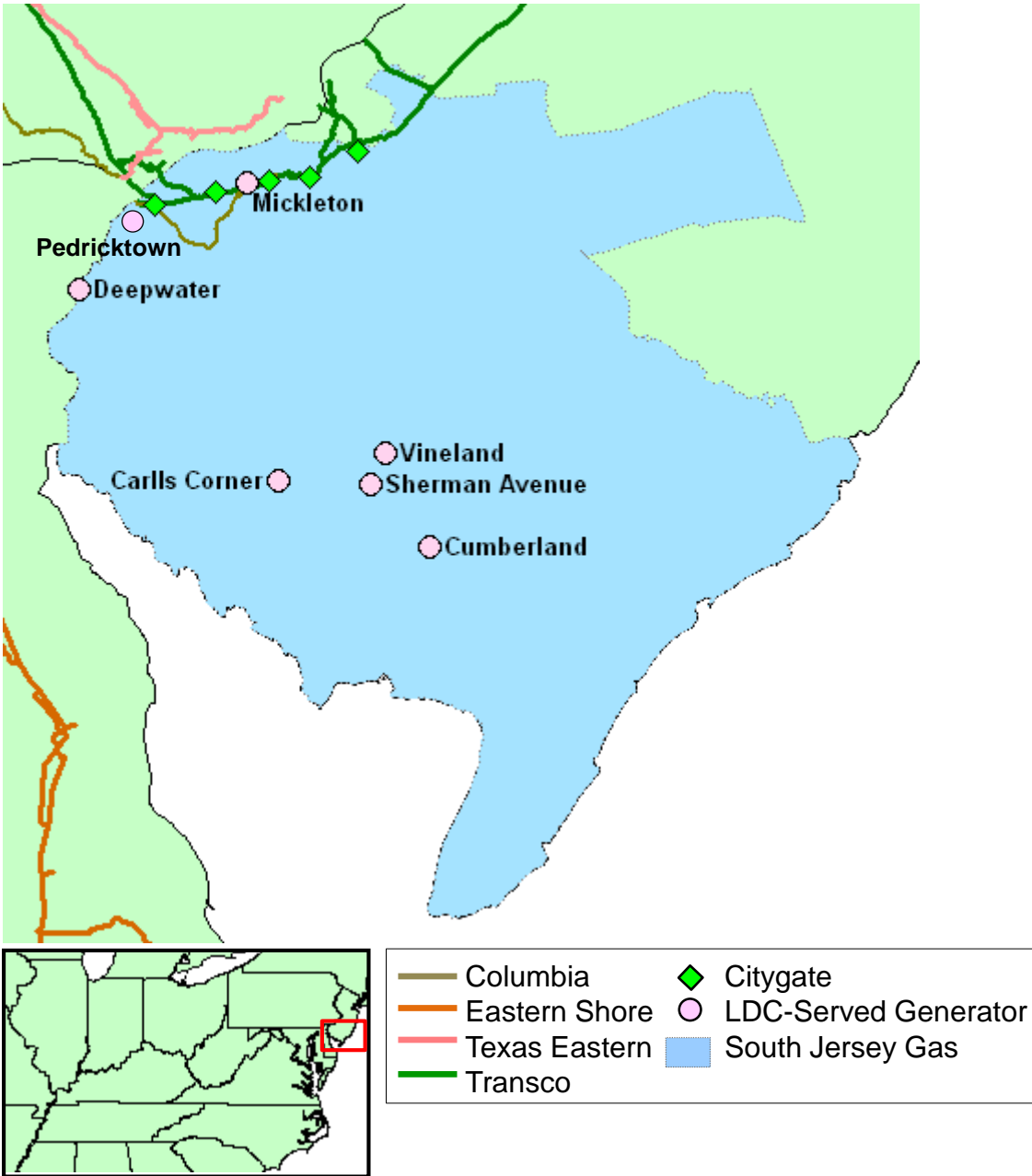


Figure A8-55. South Jersey Gas Service Territory

Table A8-91. PJM Generators Served by South Jersey Gas

Generator	Capacity (MW)
Carlls Corner	83.8
Cumberland	96.0
Deepwater	155.1
Mickleton	71.2
Pedricktown ⁷¹	120.0
Sherman Avenue	109.6
Vineland (Howard Down)	68.2

Table A8-92. South Jersey Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	South Jersey Gas Co	109
Columbia Gas	South Jersey	629898
Columbia Gas	Pedricktown	633082
Transco	S Jersey Gas Co	1006583

⁷¹ Pedricktown served by a dedicated lateral from Columbia Gas

UGI Utilities (UGI Corporation)

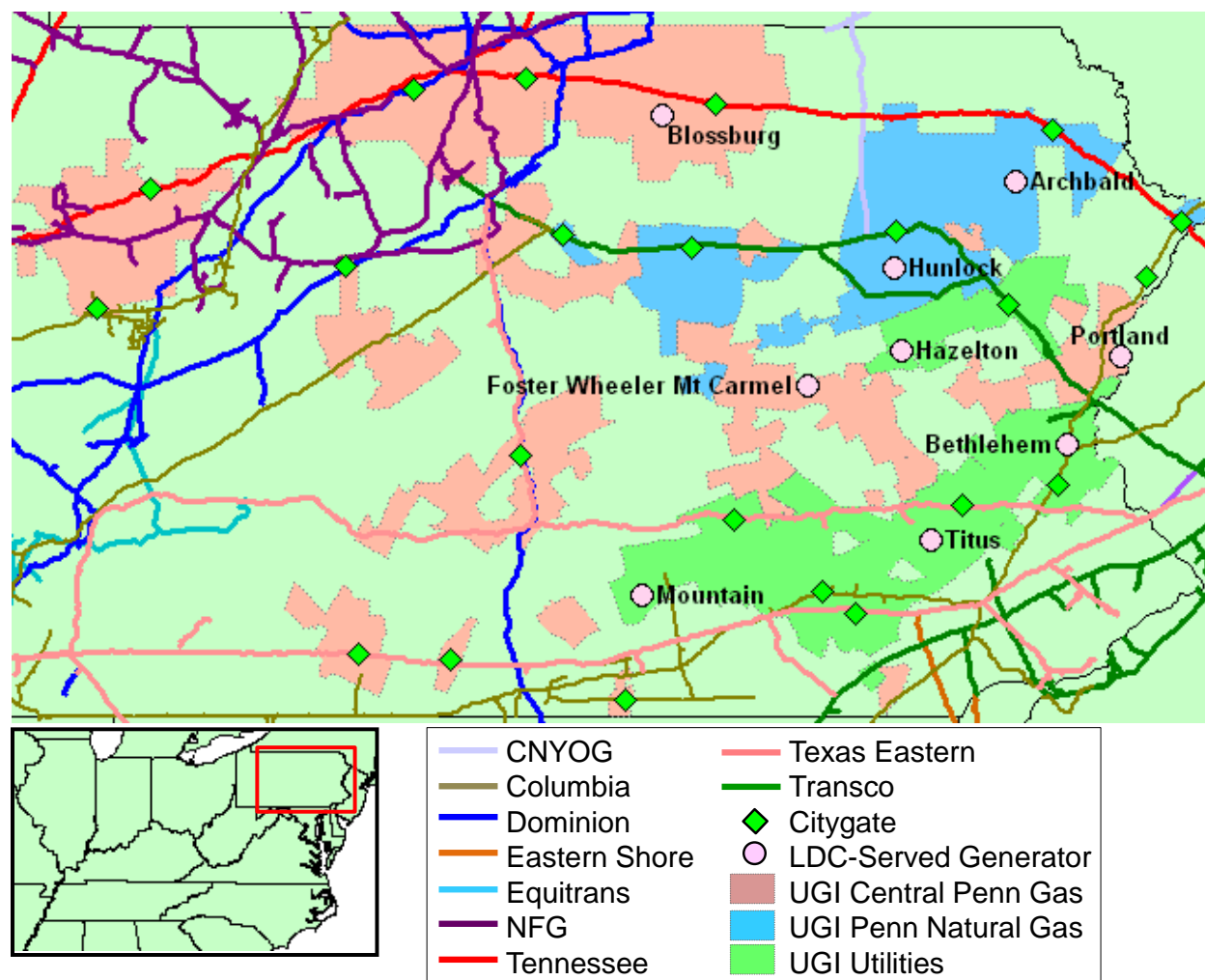


Figure A8-56. UGI Utilities Service Territory

Table A8-93. PJM Generators Served by UGI Utilities

System	Generator	Capacity (MW)
UGI Central Penn	Blossburg	23.6
UGI Central Penn	Foster Wheeler Mt Carmel	40.0
UGI Central Penn	Portland	193.6
UGI Penn	Archbald	64.0
UGI Utilities	Bethlehem	1,200.0
UGI Utilities	Hazleton	171.5
UGI Utilities	Hunlock	44.0
UGI Utilities	Mountain	53.2
UGI Utilities	Titus	35.6

Table A8-94. UGI Utilities Citygate Meters

System	Pipeline	Meter Name	Meter Number
UGI Central Penn	Columbia Gas	Penn Fuel OP 04-21	56-21
UGI Central Penn	Columbia Gas	Penn Fuel OP 04-25	56-25
UGI Central Penn	Columbia Gas	Penn Fuel OP 04-29	56-29
UGI Central Penn	Columbia Gas	Penn Fuel OP-08-36	56W
UGI Central Penn	Columbia Gas	Bangor Met-Ed	634197
UGI Central Penn	Tennessee	UGICNTRP/TGP COAL Hill PA Venango	420335
UGI Central Penn	Tennessee	UGICNTRP/TGP Mansfield PA Tioga	420213
UGI Central Penn	Tennessee	UGICNTRP/TGP Marienville PA Forest	420173
UGI Central Penn	Tennessee	UGICNTRP/TGP Port Allegany PA Mc Ke	420315
UGI Central Penn	Tennessee	UGICNTRP/TGP Troy PA Bradford	420444
UGI Central Penn	Tennessee	UGICNTRP/TGP Wellsboro PA Tioga	420253
UGI Central Penn	Tennessee	UGICNTRP/TGP West Bingham PA Potter	420089
UGI Central Penn	Texas Eastern	UGI Central - Shippensburg - Oxford, PA	70096
UGI Central Penn	Texas Eastern	UGI Central - Huntingdon Gas - Huntingdon, PA	70266
UGI Central Penn	Texas Eastern	UGI Central - Lewistown - Juniata Co., PA	70308
UGI Central Penn	Texas Eastern	UGI Central - Pottsville Gas - Berks Co., PA	70309
UGI Central Penn	Texas Eastern	UGI Central - Counties Gas Co. - Mifflin Co., PA	70463
UGI Central Penn	Texas Eastern	UGI Central - Interboro Gas - Bellville, PA	71143
UGI Central Penn	Texas Eastern	UGI Central - Twin Gas - Bedford, PA	71144
UGI Central Penn	Texas Eastern	UGI Central - Valley Gas - Martinsburg, PA	71189
UGI Central Penn	Texas Eastern	UGI Central - Dauphin Co. Gas - Annville, PA	71438
UGI Central Penn	Texas Eastern	UGI Central - Huntingdon Gas - Mapleton, PA	71455
UGI Central Penn	Texas Eastern	UGI Central - Penn Fuel - Mcconnellsburg, Fulton Co., PA	73157
UGI Penn	Columbia Gas	PA Gas Wtr OP-08	57
UGI Penn	Tennessee	UGIPENN/TGP Auburn PA Susquehanna	420443
UGI Penn	Tennessee	UGIPenn/TGP Honesdale PA Sales Wayn	420277
UGI Penn	Tennessee	UGIPenn/TGP Milford PA Pike	420319

System	Pipeline	Meter Name	Meter Number
UGI Penn	Tennessee	UGIPenn/TGP Uniondale PA Susquehann	420203
UGI Penn	Transco	Carverton	9007662
UGI Utilities	Columbia Gas	UGI Corp-23	72-23
UGI Utilities	Columbia Gas	UGI Corp-25	72-25
UGI Utilities	Tennessee	UGI/TGP Waymart Wayne	421014
UGI Utilities	Texas Eastern	UGI Utilities, Inc. (Columbia Gas) - Columbia, PA	70069
UGI Utilities	Texas Eastern	UGI Utilities, Inc. (Columbia Gas) - Lancaster, PA	70070
UGI Utilities	Texas Eastern	UGI Utilities, Inc. (Columbia Gas) - Lebanon, PA	70321
UGI Utilities	Texas Eastern	UGI Util (Columbia Gas) - Reading, PA	70322
UGI Utilities	Texas Eastern	UGI Util (Columbia Gas) - Womelsdorf, PA	70486
UGI Utilities	Texas Eastern	UGI Util (Columbia Gas) - Dauphin Co., PA	70519
UGI Utilities	Texas Eastern	UGI Util (Columbia Gas) - Rich Hill, PA	71461
UGI Utilities	Texas Eastern	UGI Util (Columbia Gas) - Lancaster, PA	71528
UGI Utilities	Texas Eastern	UGI Util - (Grantville) Hershey, PA	71987
UGI Utilities	Texas Eastern	UGI Util (Columbia Gas) - Bally, PA	72571
UGI Utilities	Texas Eastern	UGI Util - Mt. Pleasant, Berks Co. , PA	73023
UGI Utilities	Transco	UGI	1006691
UGI Utilities	Transco	UGI Hazleton M6305	1003115

Vectren Energy Delivery (Vectren Corporation)

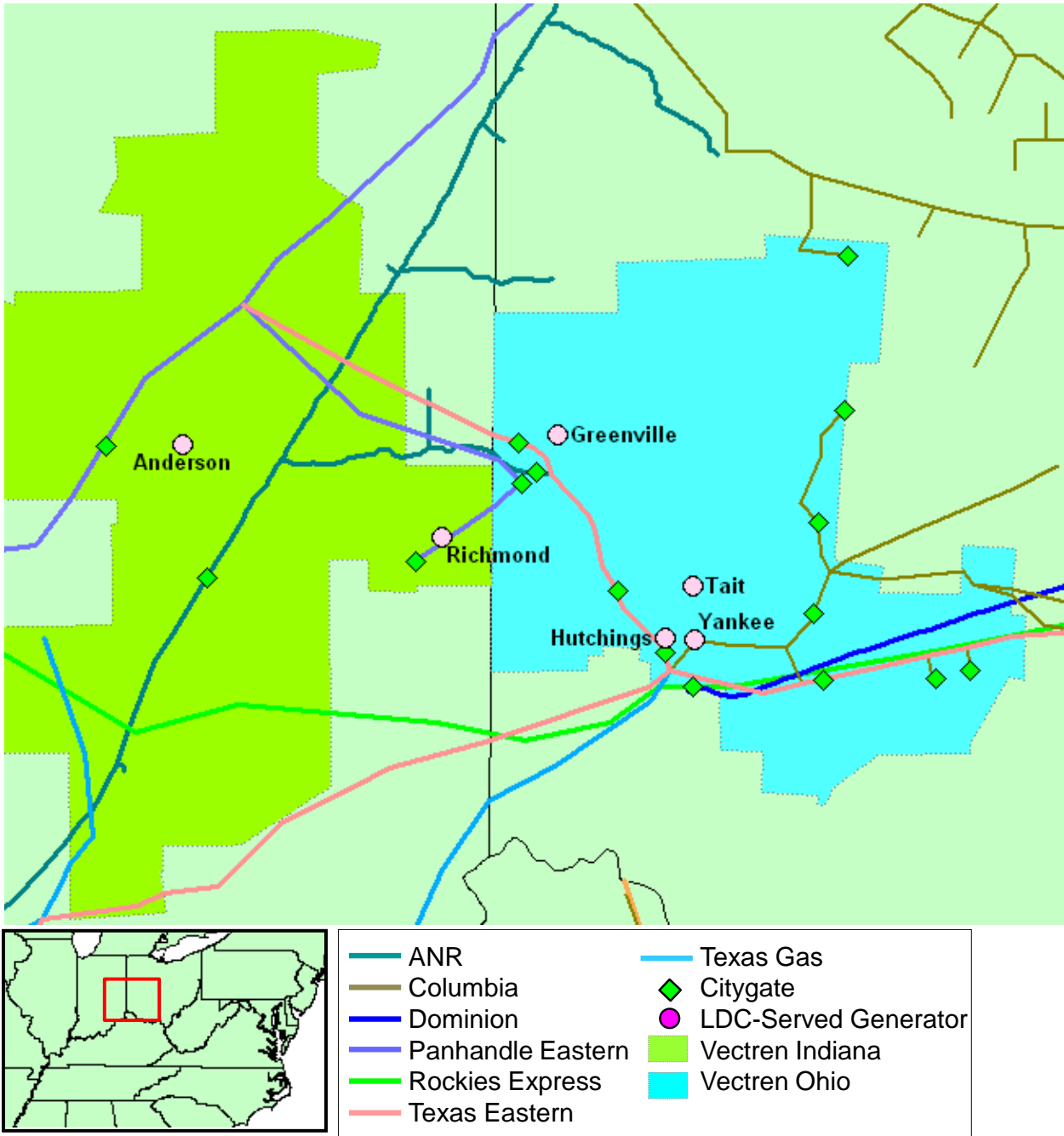


Figure A8-57. Vectren Service Territory in PJM

Table A8-95. PJM Generators Served by Vectren

System	Generator	Capacity (MW)
Indiana	Anderson	152.4
Indiana	Richmond	77.4
Ohio	Greenville	236.0
Ohio	Hutchings ⁷²	446.6
Ohio	Tait ⁷³	684.6
Ohio	Yankee	125.5

Table A8-96. Vectren Citygate Meters

System	Pipeline	Meter Name	Meter Number
Indiana	ANR	Indiana Gs-Grp 1	139240
Indiana	Panhandle Eastern	Indiana Gas - Cayuga	02825
Indiana	Rockies Express	Vec IN/REX Decatur	44590
Indiana	Texas Eastern	Indiana Gas - Greensburg, IN	70017
Indiana	Texas Eastern	Indiana Gas - Seymour, IN	70018
Indiana	Texas Eastern	Indiana Gas Co. - Westport, IN	70940
Indiana	Texas Gas	Indiana Gas SLM Deduct	1558
Indiana	Texas Gas	Indiana Gas HAB Deduct	1559
Indiana	Texas Gas	Ind Gas (OPRL) Shipper De	1702
Ohio	ANR	Lebanon/Derby - Vectren	295956
Ohio	Columbia Gas	Dayton-3	33-3
Ohio	Columbia Gas	Dayton-6	33-6
Ohio	Dominion	Dayton Power & Light	21600
Ohio	Panhandle Eastern	Vectren Energy Delivery Of Ohio - Hollansburg #2	02559
Ohio	Panhandle Eastern	Vectren Energy Delivery Of Ohio - PEPL	02830
Ohio	Panhandle Eastern	Dayton Power And Light	DAYPL
Ohio	Rockies Express	Vec OH/REX Leb Warren	44472
Ohio	Texas Eastern	DP & L - Glen Karn, OH (PEPL 02831)	72904
Ohio	Texas Eastern	DP & L - Glen Karn, Oh (PEPL 02831)	72904
Ohio	Texas Eastern	Dayton Pwr. & Lt. -Castine, OH	72906
Ohio	Texas Eastern	Dayton Pwr & Lt - Red Lion, OH	72909
Ohio	Texas Eastern	Dayton Pwr & Lt - Clinton, OH	73105
Ohio	Texas Eastern	D.P. & L. (Farmersville -Derby) - Montgomery Co., OH	73269
Ohio	Texas Gas	Lebanon-Dayton	1720

⁷² Hutchings is a coal plant, Vectren delivers natural gas for ignition.

⁷³ Tait is also served by ANR and Texas Eastern.

Virginia Natural Gas

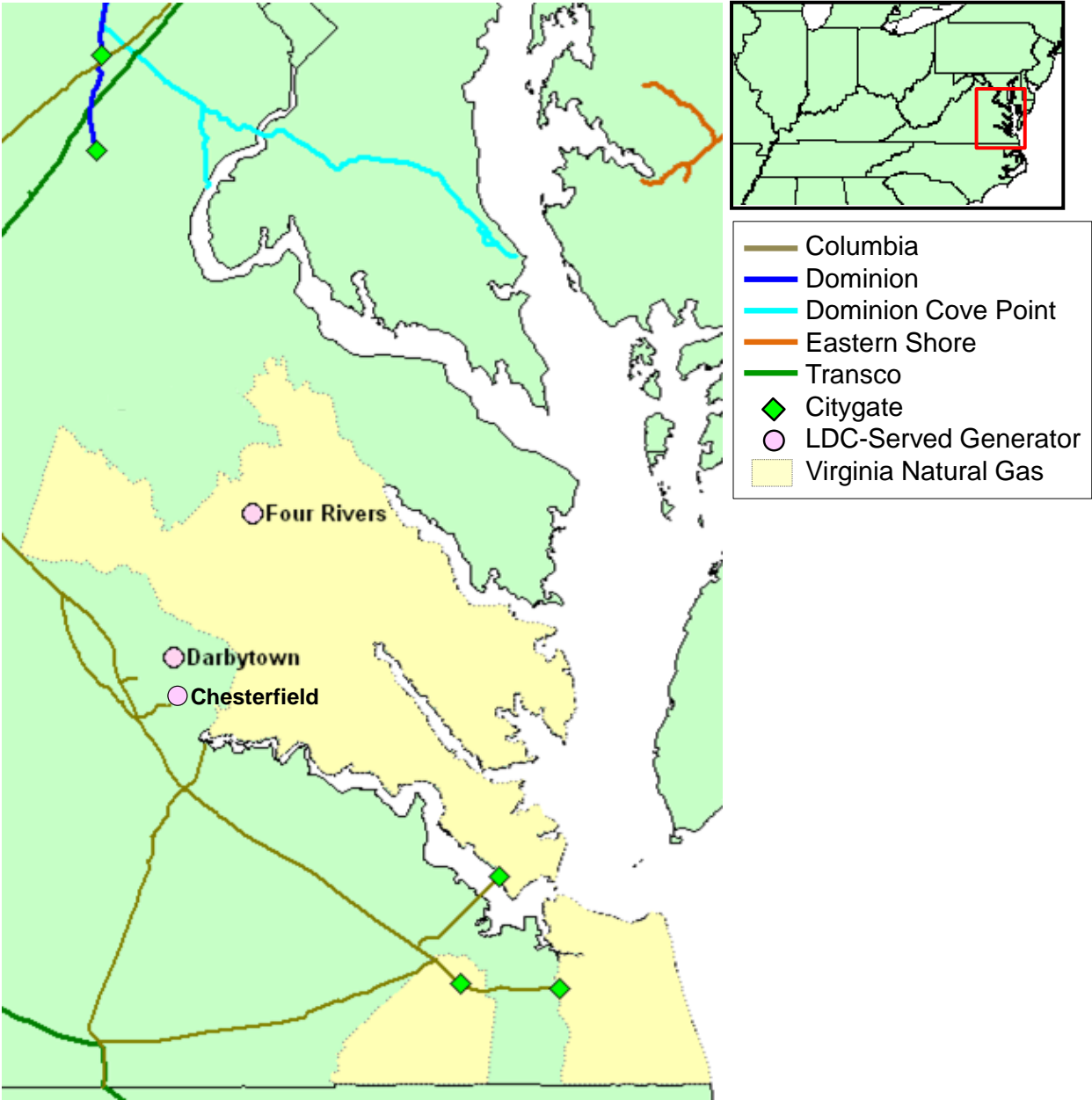


Figure A8-58. Virginia Natural Gas Service Territory

Table A8-97. PJM Generators Served by Virginia Natural Gas

Generator	Capacity (MW)
Chesterfield ⁷⁴	446.6
Darbytown ⁷⁵	368.4
Four Rivers (Doswell)	939.0

Table A8-98. Virginia Natural Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Virginia Natural Gas	30VN
Dominion	Virginia Natural	22400
Dominion	VEPCO (Lady Smitd)	22900

⁷⁴ Chesterfield is also served by a dedicated Columbia Gas of Virginia lateral from Columbia Gas.

⁷⁵ Darbytown is also served by Columbia Gas of Virginia.

Washington Gas Light (WGL Holdings)

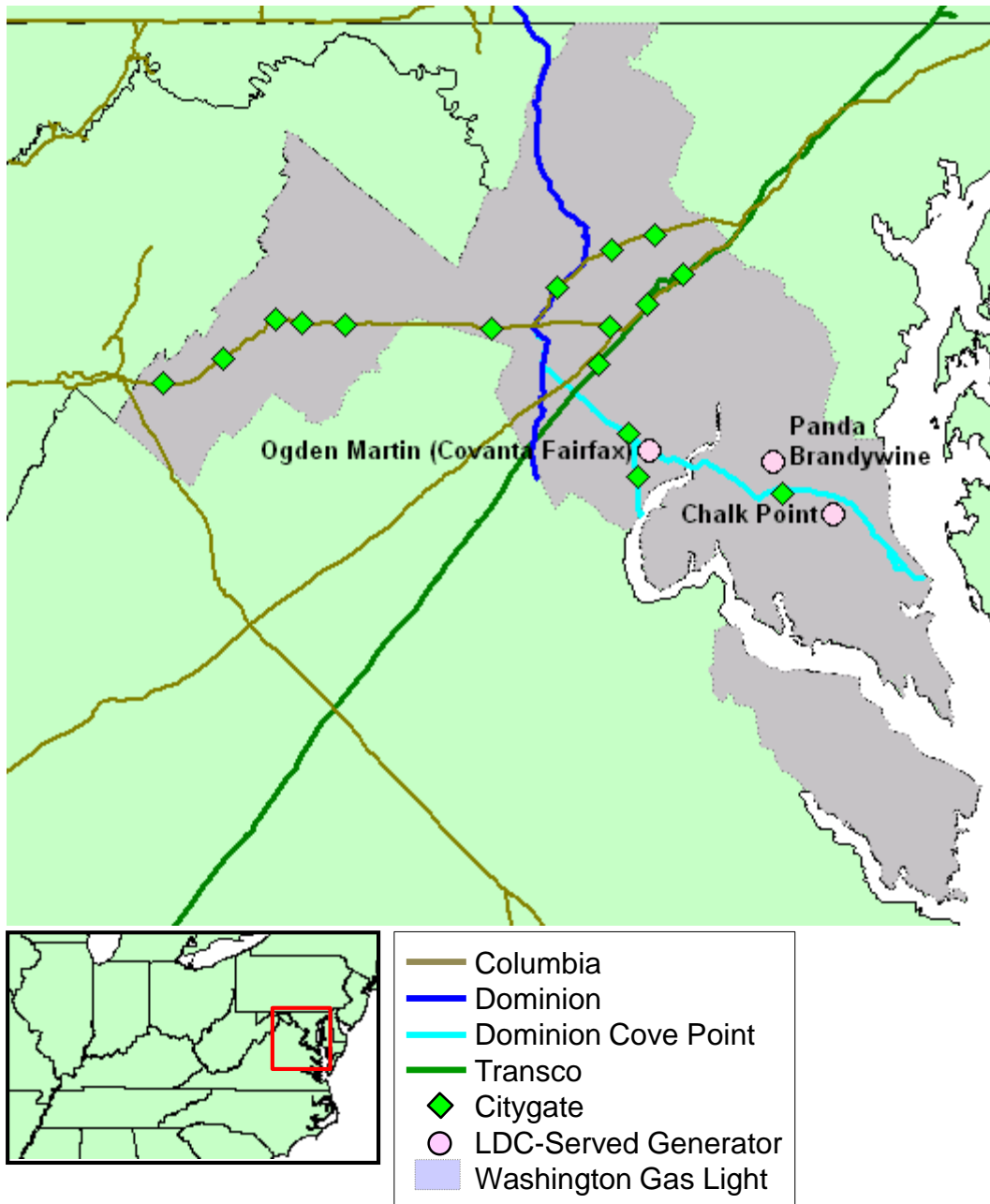


Figure A8-59. Washington Gas Light Service Territory

Table A8-99. PJM Generators Served by Washington Gas Light

Generator	Capacity (MW)
Chalk Point	1,868.0
Ogden Martin (Covanta Fairfax)	124.0
Panda Brandywine	230.0

Table A8-100. Washington Gas Light Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gas	Washington Gas-28	78-28
Columbia Gas	Washington Gas-30	78-30
Dominion	Washington Gas and Light	23500
Dominion Cove Point	WGL-Centerville	77010
Dominion Cove Point	WGL-White Plains	77020
Dominion Cove Point	WGL-Gardiner Road	77030
Dominion Cove Point	WGL-Prince Frederick	77040
Dominion Cove Point	WGL-Patuxent	77050
Dominion Cove Point	Chalk Point Plant	87000
Transco	Washington Gas	1006585
Transco	Frederick Gas	1006094

Appendix 9

Gas Infrastructure Serving Generation in MISO

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Data Sources:

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

Alliance Pipeline (Enbridge / Veresen)

Capacity: 2,053 MDth/d

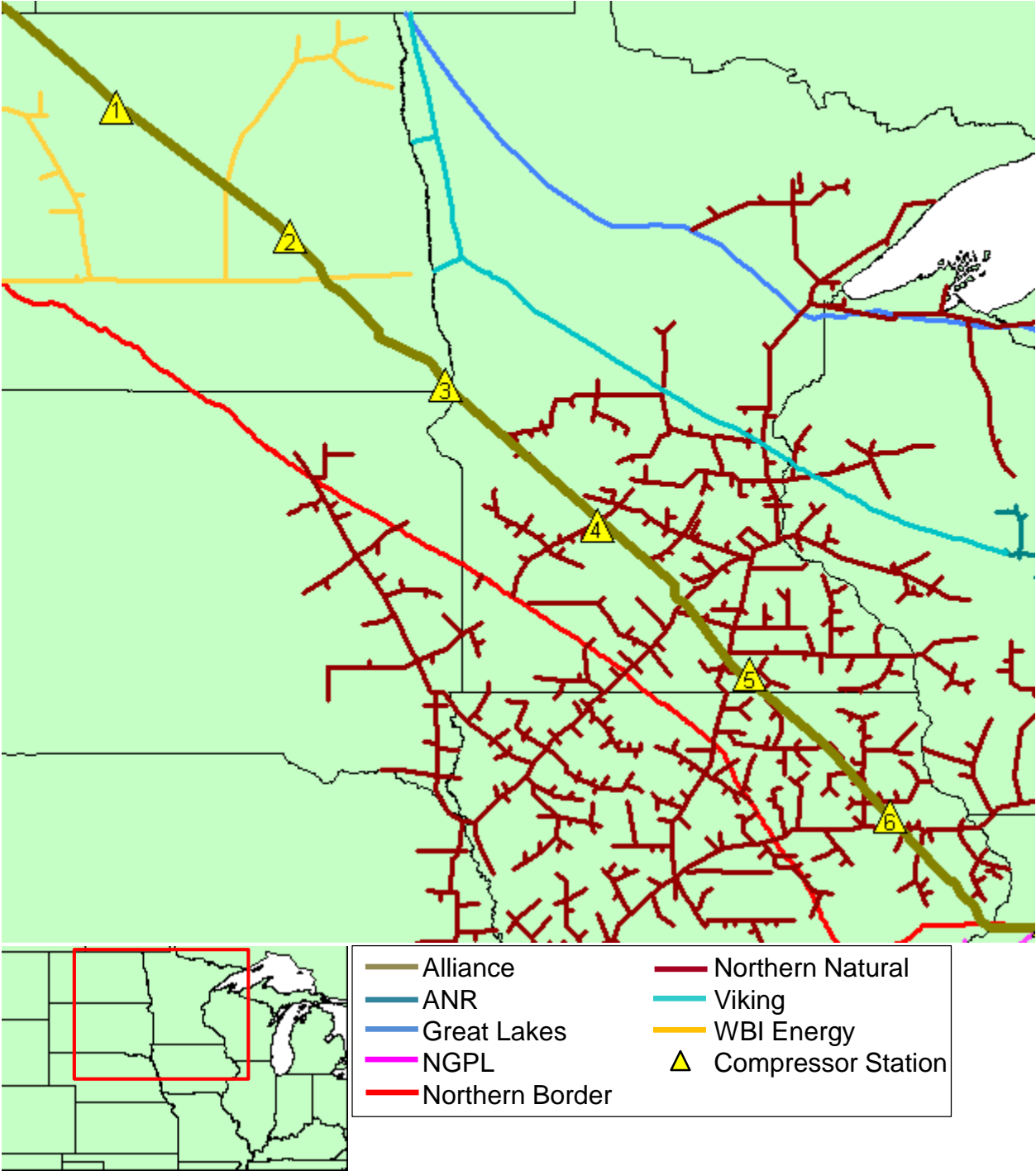


Figure A9-1. Alliance Facilities in MISO North/Central

Table A9-1. Alliance Compressor Stations in MISO North/Central

ID	Name	Location
1	Towner (17A)	Towner, ND
2	Wimbledon (19A)	Wimbledon, ND
3	Fairmount (21A)	Fairmount, ND
4	Olivia (23A)	Bird Island, MN
5	Albert Lea (25A)	Albert Lea, MN
6	Manchester (27A)	Manchester, IA

American Midstream (MidLa)

Capacity: 198 MDth/d

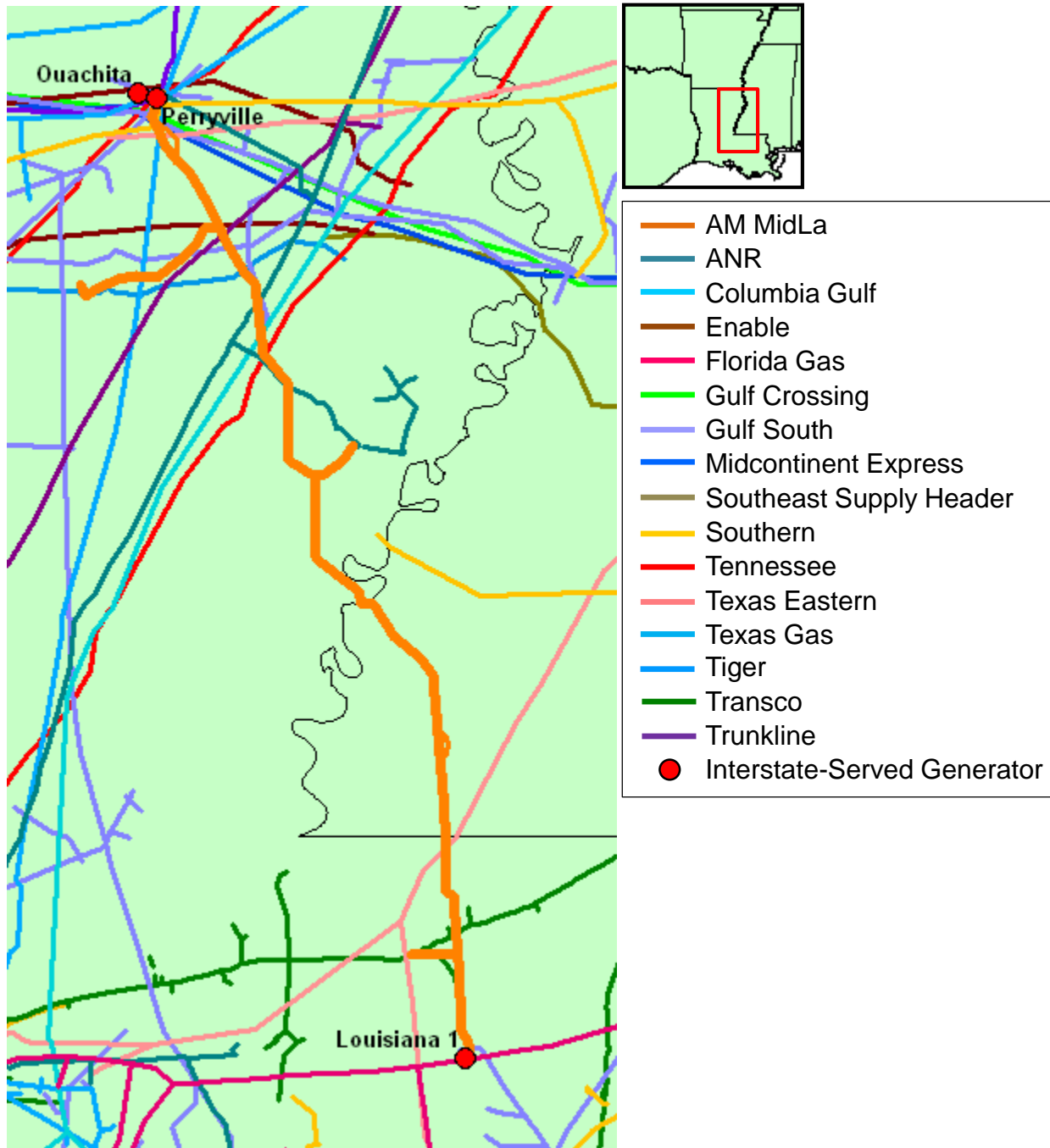


Figure A9-2. American Midstream MidLa Facilities

Table A9-2. MISO South Generators Directly Connected to AM MidLa

Generator	Capacity (MW)	Meter Name	Meter Number
Louisiana 1	150	Entergy Power Plant – GSU Road	20147
Ouachita ¹	770	Sterlington Power Plant - Arkansas	20140
		Sterlington Power Plant - Gulf States	20141
Perryville	691	Perryville Power Plant	20139

¹ Two of the units at Ouachita are owned by Entergy Arkansas and one unit is owned by Entergy Gulf States.

ANR Pipeline (TransCanada)

Capacity: 8,435 MDth/d

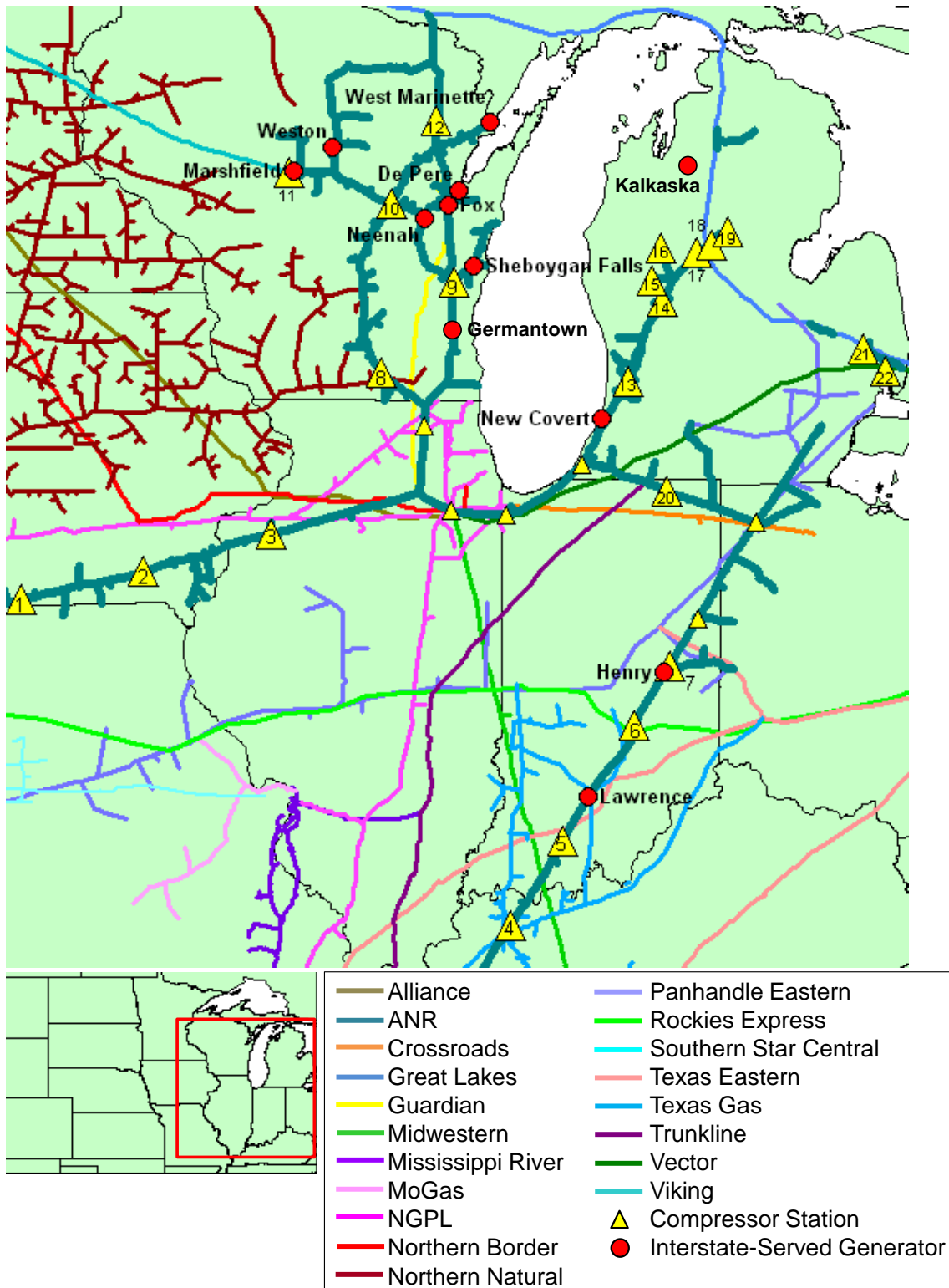


Figure A9-3. ANR Facilities in MISO North/Central

Table A9-3. MISO North/Central Generators Directly Connected to ANR

Generator	Capacity (MW)	Meter Name	Meter Number
De Pere Energy Center	196	De Pere Interconnect	261573
Fox Energy Center	520	Kaukauna	387791
Germantown		Germantown Int	265372
Henry County	129	Cadiz Int	277052
Kalkaska	50	Prough Road	1292925
Lawrence County	261	Lawrence	398767
Marshfield	60	Marshfield WI	28875
Neenah	317	Neenah	40498
New Covert Generating	1,080	Covert Power Plant	312117
Sheboygan Falls	300	Sheboygan Falls	439345
West Marinette (MGE)	88	West Marinette	28760
West Marinette (WPS)	200	West Marinette	28760
Weston	82	Weston Plant	28742

Table A9-4. ANR Compressor Stations in MISO North/Central

ID	Name	Location
1	Lineville	Lineville, IA
2	Birmingham	Birmingham, IA
3	New Windsor	New Windsor, IL
4	Slaughters	Slaughters, KY
5	Celestine	Celestine, IN
6	Shelbyville	Shelbyville, IN
7	Sulphur Springs	Sulphur Springs, IN
8	Jamesville	Jamesville
9	Kewaskum	Adell, WI
10	Weyauwega	Weyauwega, WI
11	Marshfield	Marshfield, WI
12	Mountain	Suring, WI
13	Hamilton	Hamilton, MI
14	Winfield	Howard City, MI
15	Goodwell	White Cloud, MI
16	Reed City	Reed City, MI
17	Orient	Sears, MI
18	Lincoln	Lake George, MI
19	North Hamilton	Harrison, MI
20	Lagrange	Lagrange, IN
21	Capac	Capac, MI
22	Muttonville	Lenox, MI

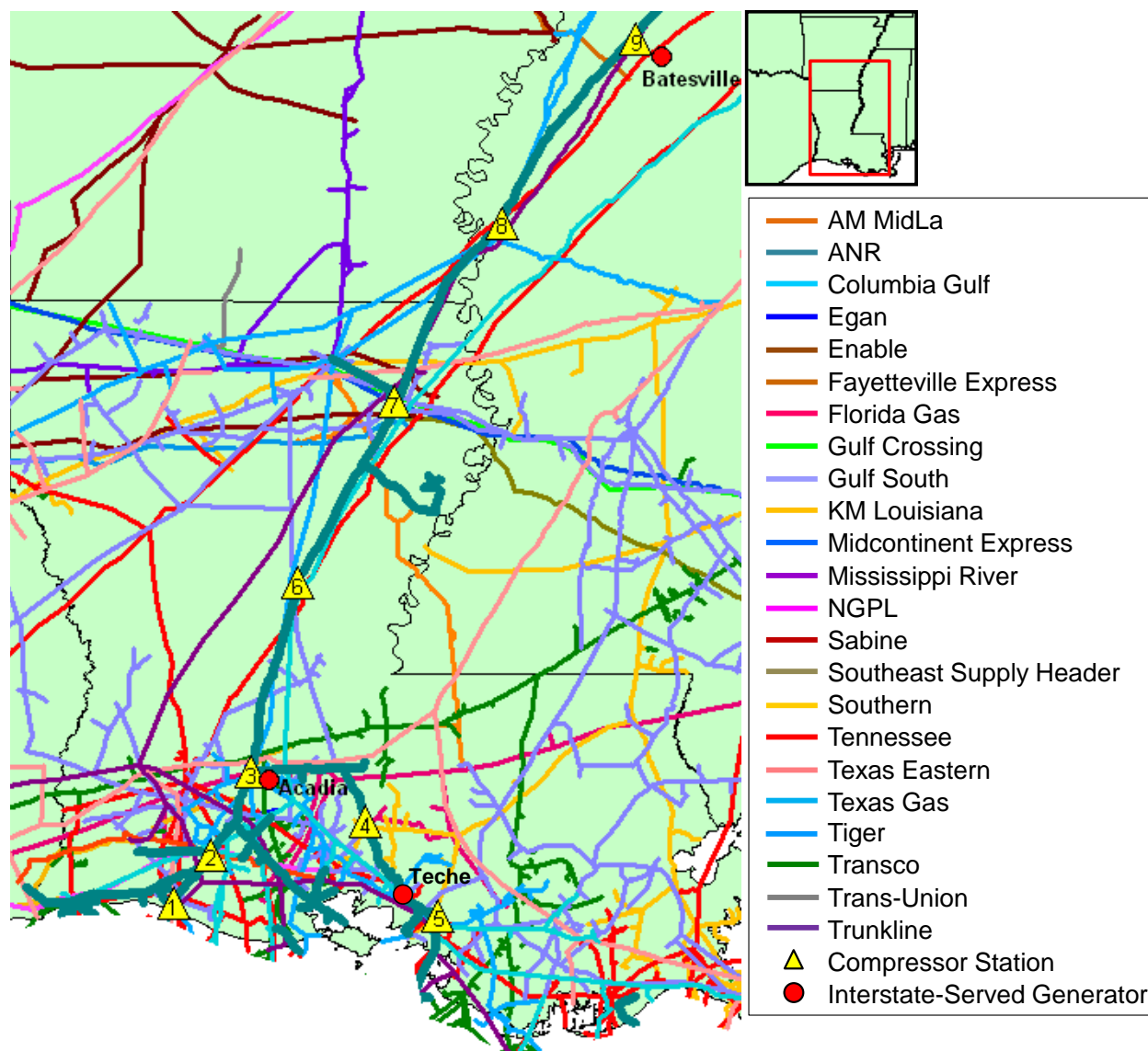


Figure A9-4. ANR Facilities in MISO South

Table A9-5. MISO South Generators Directly Connected to ANR

Generator	Capacity (MW)	Meter Name	Meter Number
Acadia Energy Center	1,107	Acadia Power Plant	322045
Batesville	837	Panola County Int	266555
Teche	350	Teche Plant (CLECO)	218538

Table A9-6. ANR Compressor Stations in MISO South

ID	Name	Location
1	Grand Chenier	Grand Chenier, LA
2	Lake Arthur	Lake Arthur, LA
3	Eunice	Eunice, LA
4	St. Martinville	St. Martinville, LA
5	Patterson	Patterson, LA
6	Jena	Jena, LA
7	Delhi	Delhi, LA
8	Greenville	Greenville, MS
9	Sardis	Sardis, MS

Bison Pipeline (TransCanada)

Capacity: 416 MDth/d

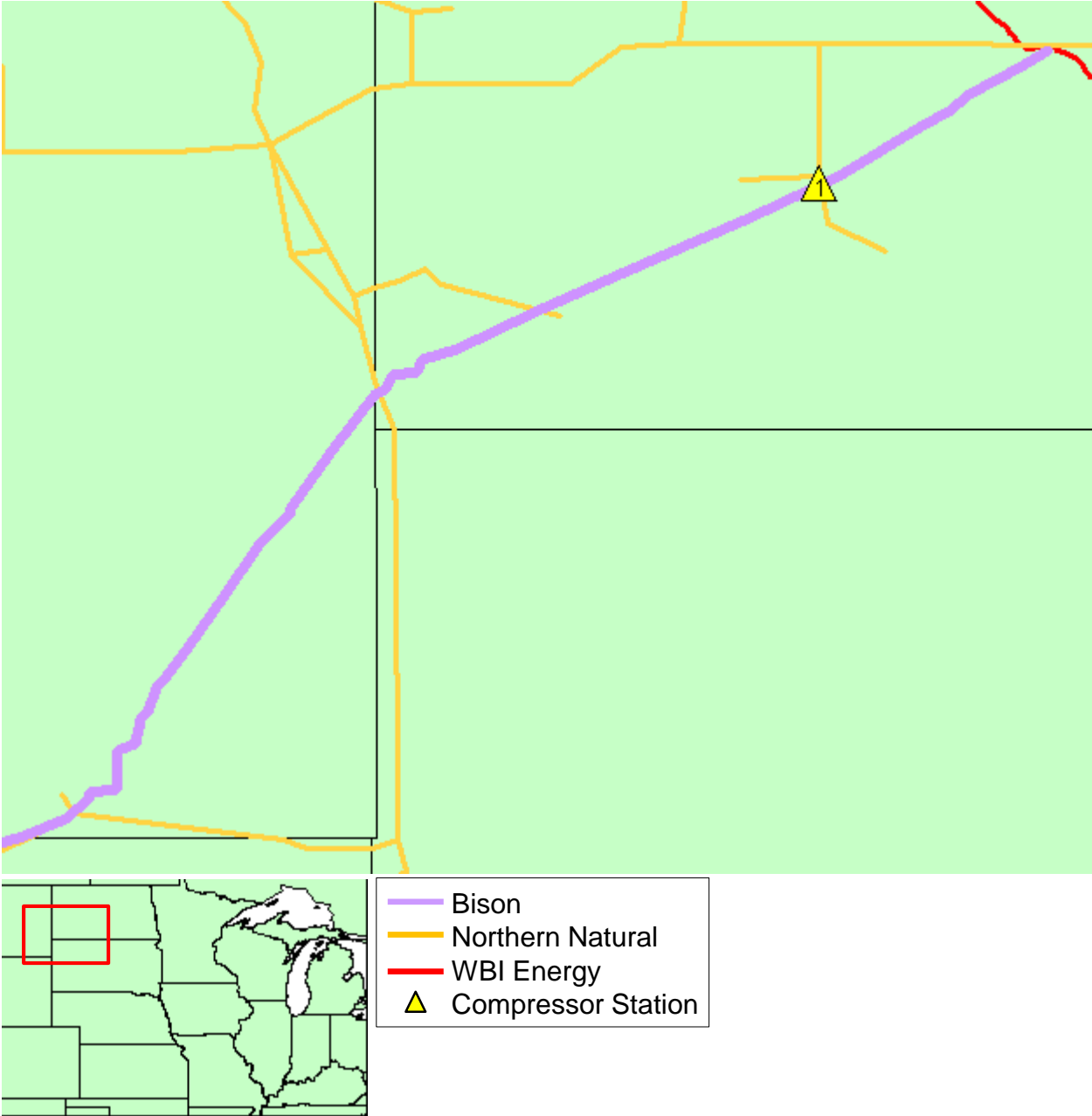


Figure A9-5. Bison Facilities

Table A9-7. Bison Compressor Stations in MISO North/Central

ID	Name	Location
1	Station	Hettinger County, ND

Columbia Gulf (NiSource)

Capacity: 2,156 MMcf/d (winter) / 2,056 MMcf/d (summer)

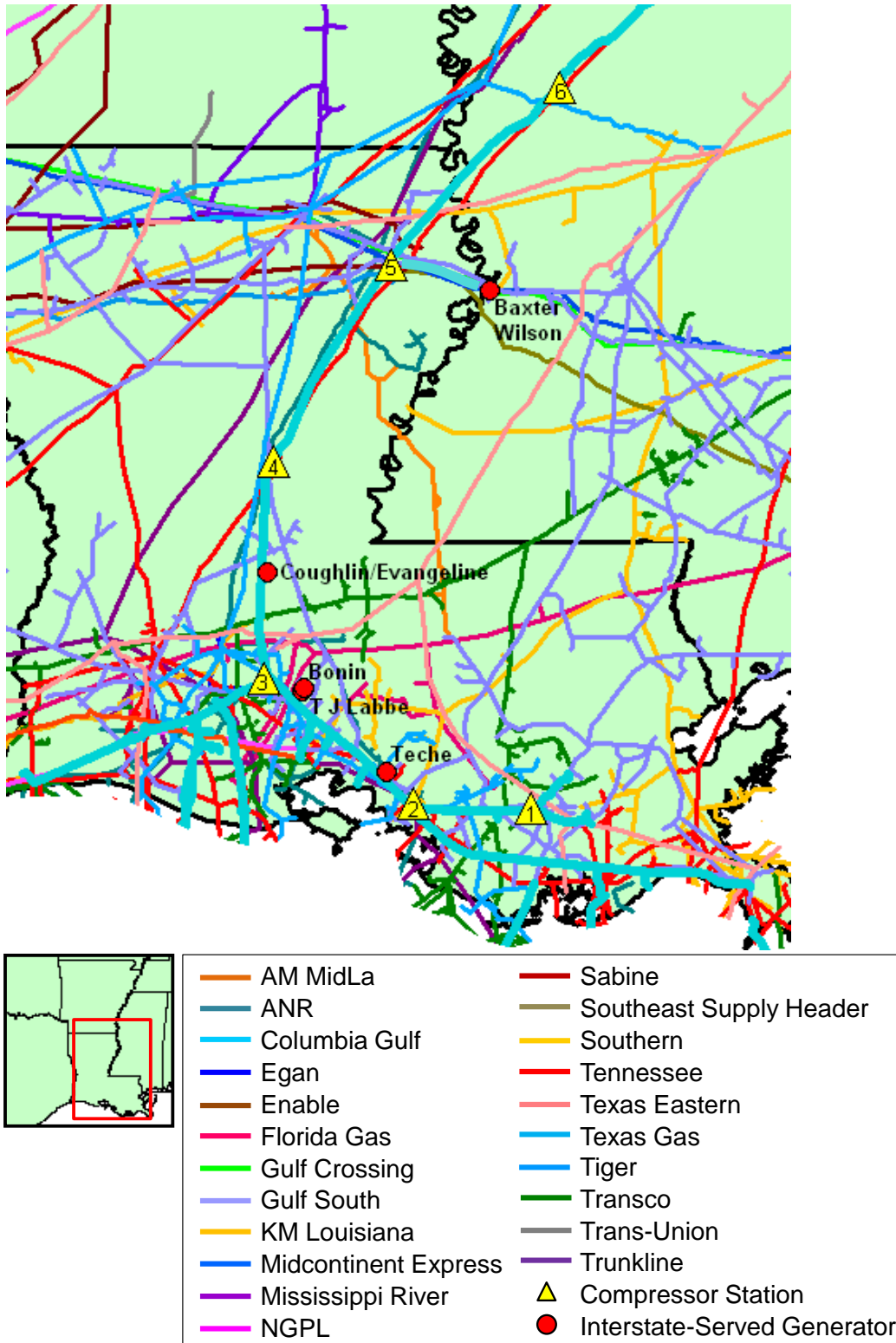


Figure A9-6. Columbia Gulf Facilities in MISO South

Table A9-8. MISO South Generators Directly Connected to Columbia Gulf

Generator	Capacity (MW)	Meter Name	Meter Number
Baxter Wilson	1167	Entergy Mississippi	4169
Bonin	171	Lafayette – Acadia	4051
Coughlin/Evangeline	730	CLE-EVANGELINE	4128
Teche	350	CLECO-TECHE	4137
T J Labbe	96	Lafayette – Acadia	4051

Table A9-9. Columbia Gulf Compressor Stations in MISO South

ID	Name	Location
1	Houma	Lafourche, LA
2	Centerville	Franklin, LA
3	Rayne	Rayne, LA
4	Alexandria	Deville, LA
5	Delhi	Delhi, LA
6	Inverness	Inverness, MS

Crossroads Pipeline (NiSource)

Capacity: 225 MDth/d

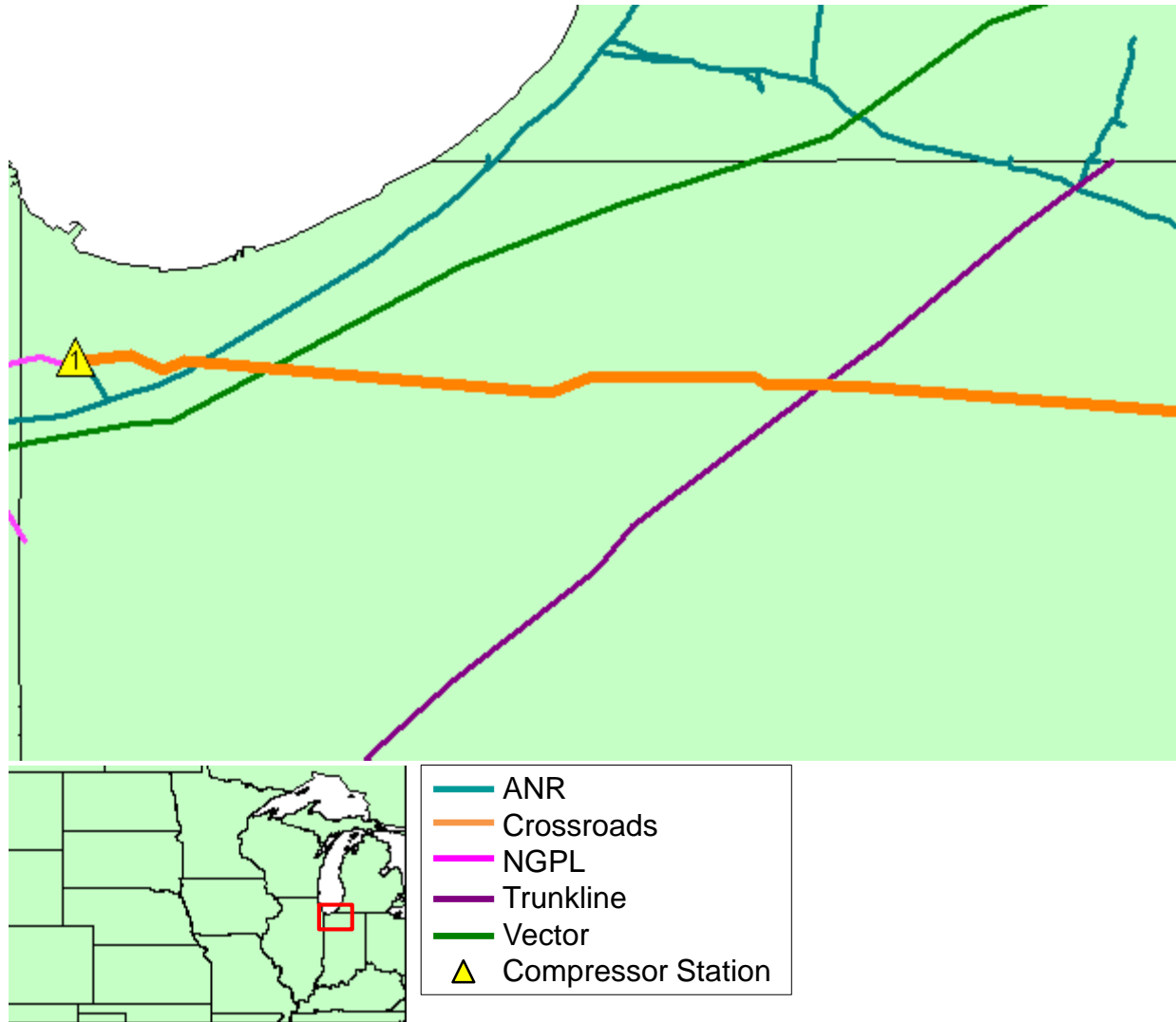


Figure A9-7. Crossroads Facilities in MISO North/Central

Table A9-10. Crossroads Compressor Stations in MISO North/Central

ID	Name	Location
1	Schererville	Schererville, IN

Destin Pipeline (Amoco / Enbridge)

Capacity: 1,200 MMcf/d.

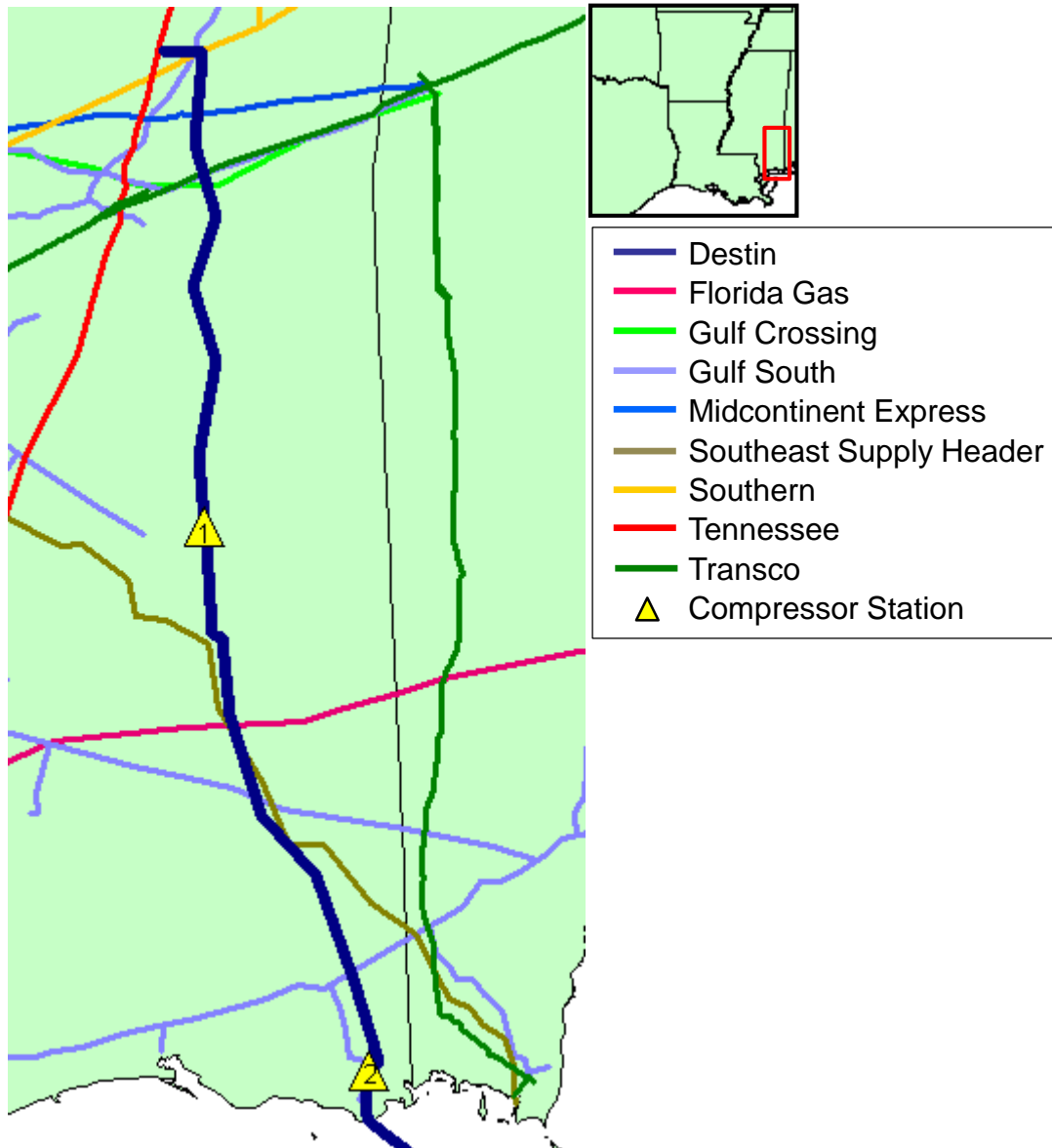


Figure A9-8. Destin Onshore Facilities

Table A9-11. Destin Compressor Stations in MISO South

ID	Name	Location
1	Sand Hill	Richton, MS
2	Pascagoula	Moss Point, MS

Egan Hub Storage (Spectra Energy)

Capacity: 2,300 MMcf/d²

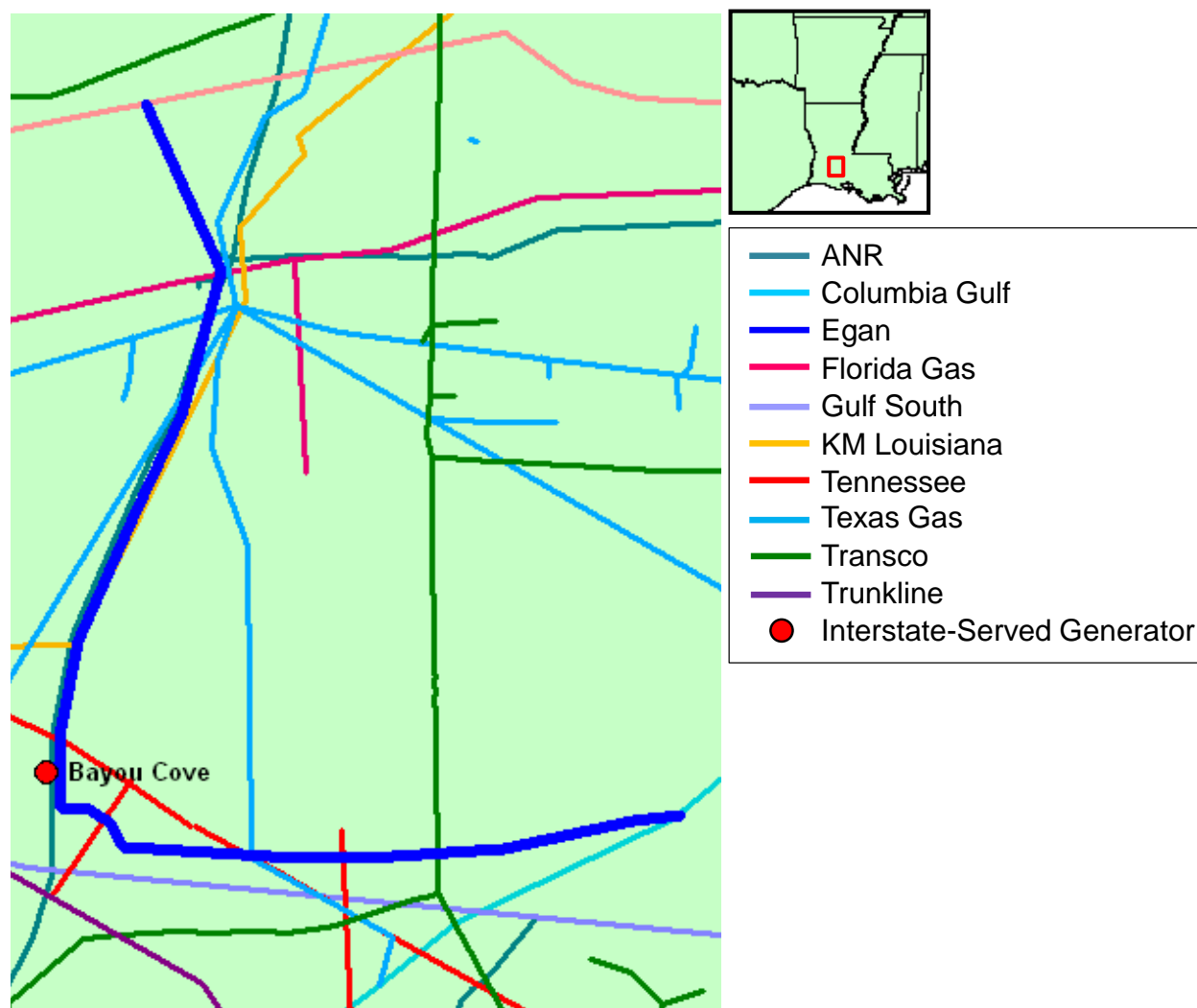


Figure A9-9. Egan Hub Facilities

Table A9-12. MISO South Generators Directly Connected to Egan Hub

Generator	Capacity (MW)	Meter Name	Meter Number
Bayou Cove	320	Bayou Cove - Storage, LA (D40118/R40117)	45117

² Maximum daily delivery capability of the storage facility.

Enable Gas Transmission (Enable Midstream Partners)³

Capacity: 6,242 MDth/d

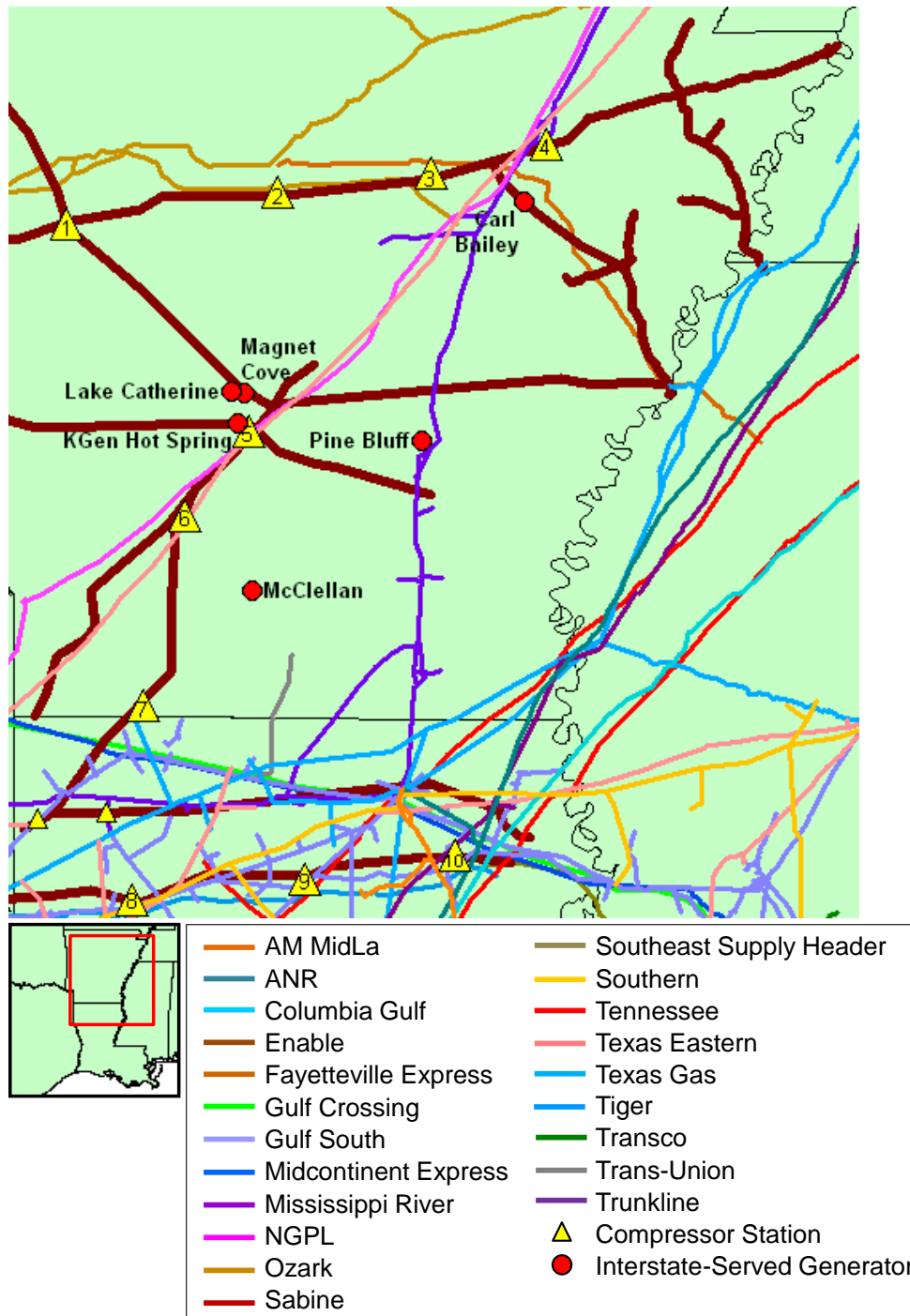


Figure A9-10. Enable Facilities in MISO South

³ Enable Midstream Partners was formed by the merger of CenterPoint Energy and OGE Energy in mid-2013. The pipeline was previously known as CenterPoint Energy Gas Transmission.

Table A9-13. MISO South Generators Directly Connected to Enable

Generator	Capacity (MW)	Meter Name	Meter Number
Carl Bailey	122	Ark Elec Augusta Pwr Pl	801646
Dell	679	Dell Power Plant	13197
KGen Hot Spring	620	Entergy Hot Springs	806125
Lake Catherine	520	Entergy @ Catherine	801502
Magnet Cove	660	Magnet Cove Gen Station	874120
McClellan	134	Ark Elec Camden Pwr Plt	801644
Pine Bluff Energy Center	232	Skygen #1	47014

Table A9-14. Enable Compressor Stations in MISO South

ID	Name	Location
1	Dunn	Magazine, AR
2	Round Mountain	Morrilton, AR
3	Searcy	Letona, AR
4	White River	Newport, AR
5	Malvern	Malvern, AR
6	Beirne	Gurdon, AR
7	Taylor	Taylor, AR
8	Westdale	Westdale, LA
9	Vernon	Jonesboro, LA
10	Alto	Alto, LA

Fayetteville Express (Energy Transfer Partners)

Capacity: 2,000 MDth/d

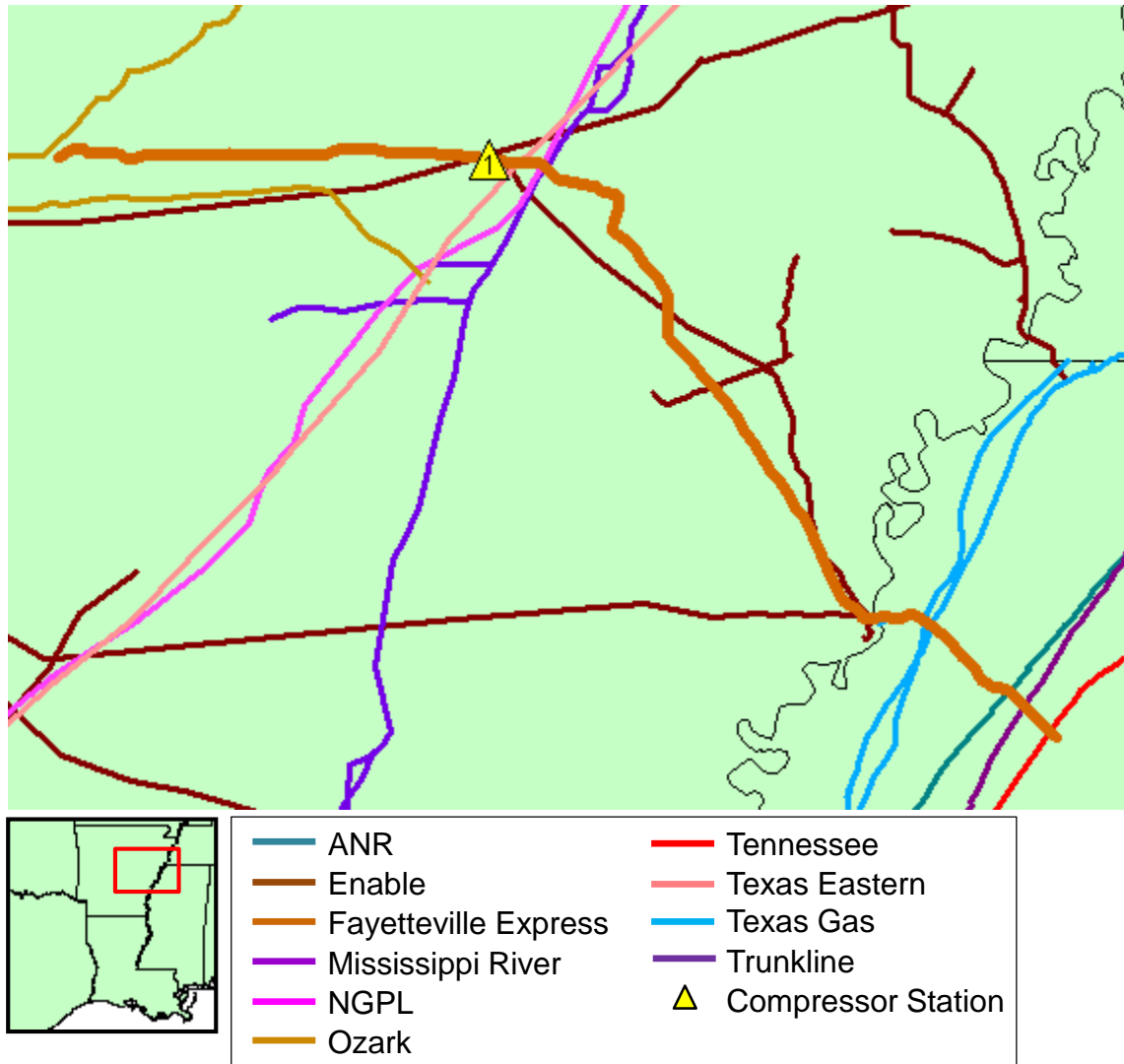


Figure A9-11. Fayetteville Express Facilities in MISO South

Table A9-15. Fayetteville Express Compressor Stations in MISO South

ID	Name	Location
1	Russell	Bald Knob, AR

Florida Gas Transmission (Panhandle Energy)

Capacity: 3,105 MDth/d (winter), 3,074 MDth/d (summer)

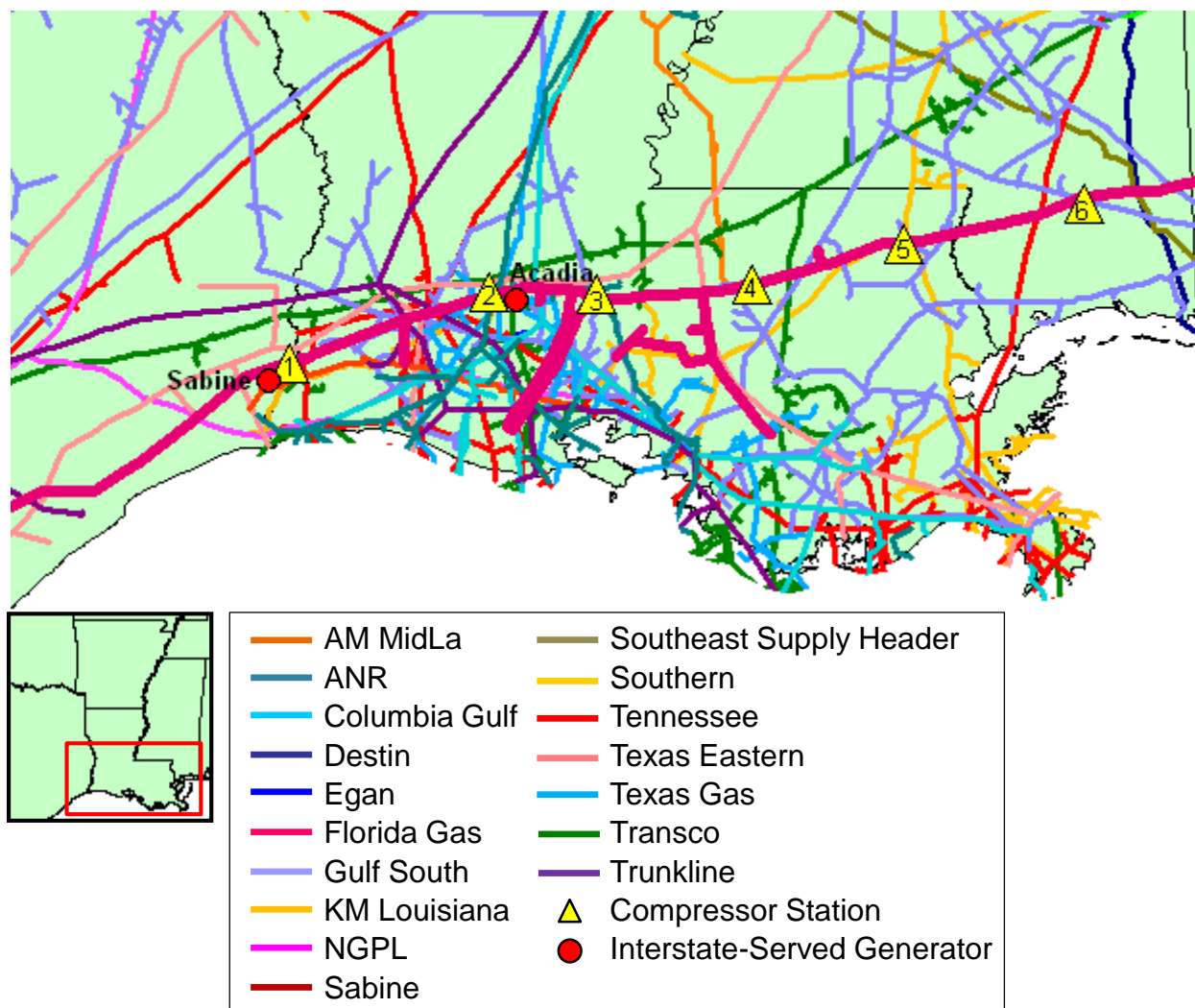


Figure A9-12. Florida Gas Transmission Facilities in MISO South

Table A9-16. MISO South Generators Directly Connected to Florida Gas

Generator	Capacity (MW)	Meter Name	Meter Number
Acadia Energy Center	1,107	Acadia Partners P/L CTG	84087
Sabine	1,809	GSU Sabine P/L FGT	94128

Table A9-17. Florida Gas Compressor Stations in MISO South

ID	Name	Location
1	Vidor	Orange, TX
2	Eunice	Eunice, LA
3	Port Barre	Port Barre, LA
4	Zachary	Zachary, LA
5	Franklinton	Franklinton, LA
6	Wiggins	Wiggins, MS

Golden Pass Pipeline

Capacity: 2,601 MDth/d

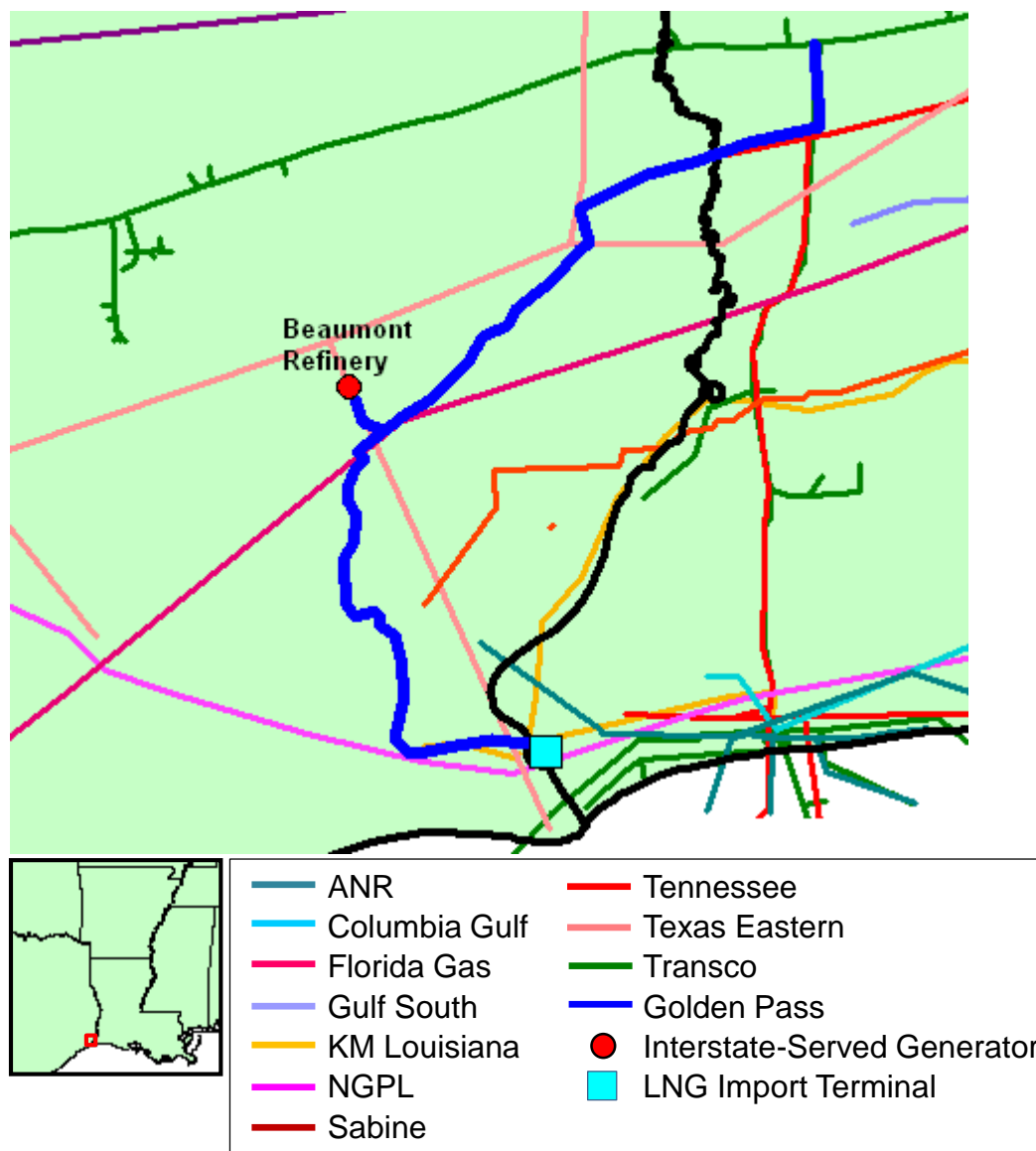


Figure A9-13. Golden Pass Facilities in MISO South

Table A9-18. MISO South Generators Directly Connected to Golden Pass

Generator	Capacity (MW)	Meter Name	Meter Number
Beaumont Refinery ⁴	300	N/A	N/A

⁴ From the Golden Pass FERC Certificate Application: “Additionally, a 2-mile, 24-inch pipeline lateral from the main pipeline will connect to the ExxonMobil Beaumont refinery.” FERC Accession No. 20040824-0145, page 15 (page 4 of Application section).

Great Lakes Gas Transmission (TransCanada)

Capacity: 2,701 MDth/d

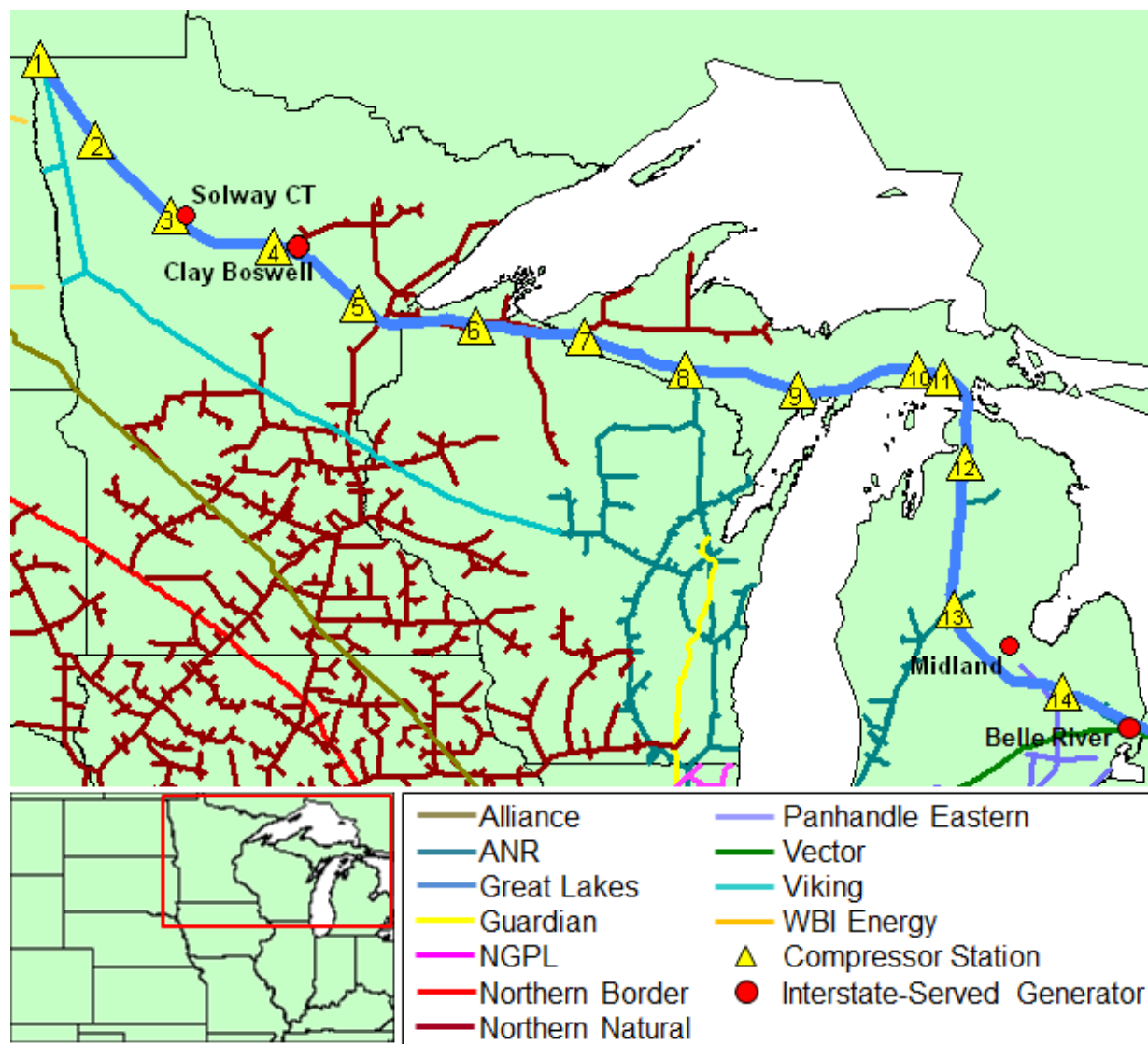


Figure A9-14. Great Lakes Gas Transmission Facilities in MISO North/Central

Table A9-19. MISO North/Central Generators Directly Connected to Great Lakes Gas

Generator	Capacity (MW)	Meter Name	Meter Number
Belle River	279	Belle River Mills	11771
Clay Boswell	1,073	Little Bass	780435
Midland Cogeneration Venture	1,710	Midland	169334
Solway	50	Lammers	385442

Table A9-20. Great Lakes Gas Compressor Stations in MISO North/Central

ID	Name	Location
1	St. Vincent	Hallock, MN
2	Thief River Falls	Newfolden, MN
3	Shevlin	Shevlin, MN
4	Deer River	Deer River, MN
5	Cloquet	Cloquet, MN
6	Iron River	Iron River, MN
7	Wakefield	Wakefield, MN
8	Crystal Falls	Crystal Falls, MI
9	Rapid River	Rapid River, MI
10	Naubinway	Naubinway, MI
11	Brevort	Brevort, MI
12	Boyne Falls	Boyne Falls, MI
13	Farwell	Lake George, MI
14	Otisville	Otisville, MI

Guardian Pipeline (ONEOK)

Capacity: 1,287 MMcf/d⁵

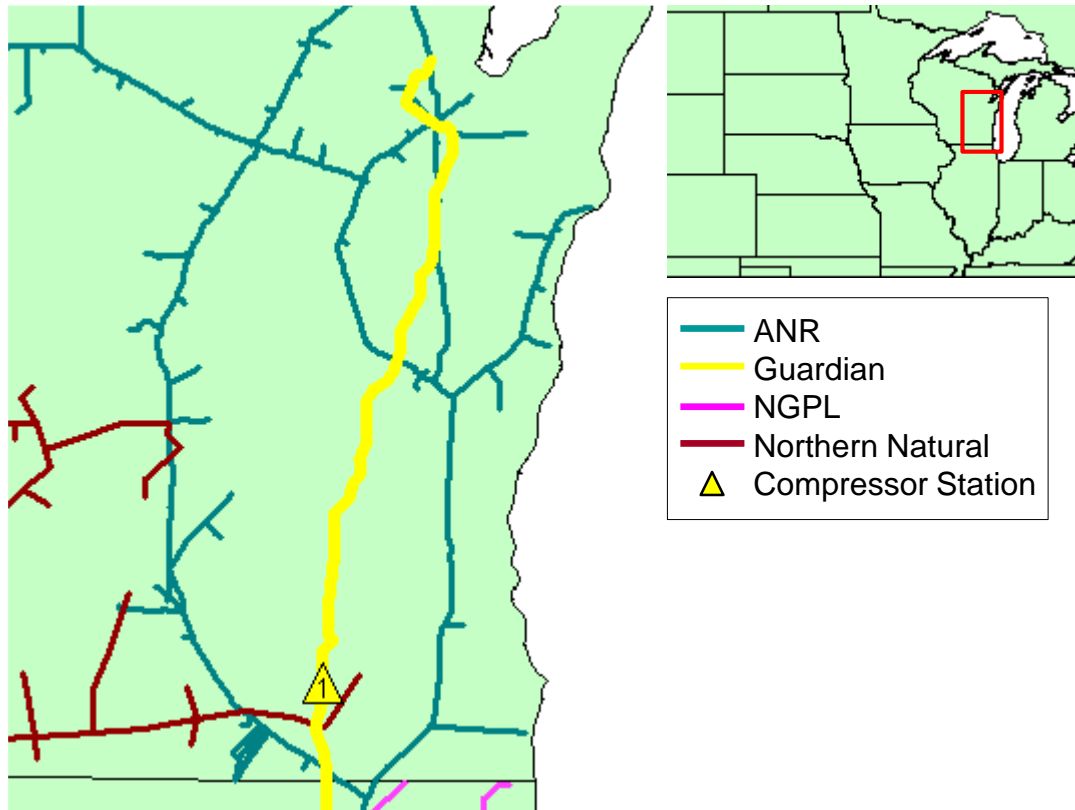


Figure A9-15. Guardian Facilities in MISO North/Central

Table A9-21. Guardian Compressor Stations in MISO North/Central

ID	Name	Location
1	Bluff Creek	Walworth County, WI

⁵ Source: <http://www.gpl.oneokpartners.com/>

Gulf Crossing (Boardwalk Pipeline Partners)

Capacity: 1,449 MDth/d

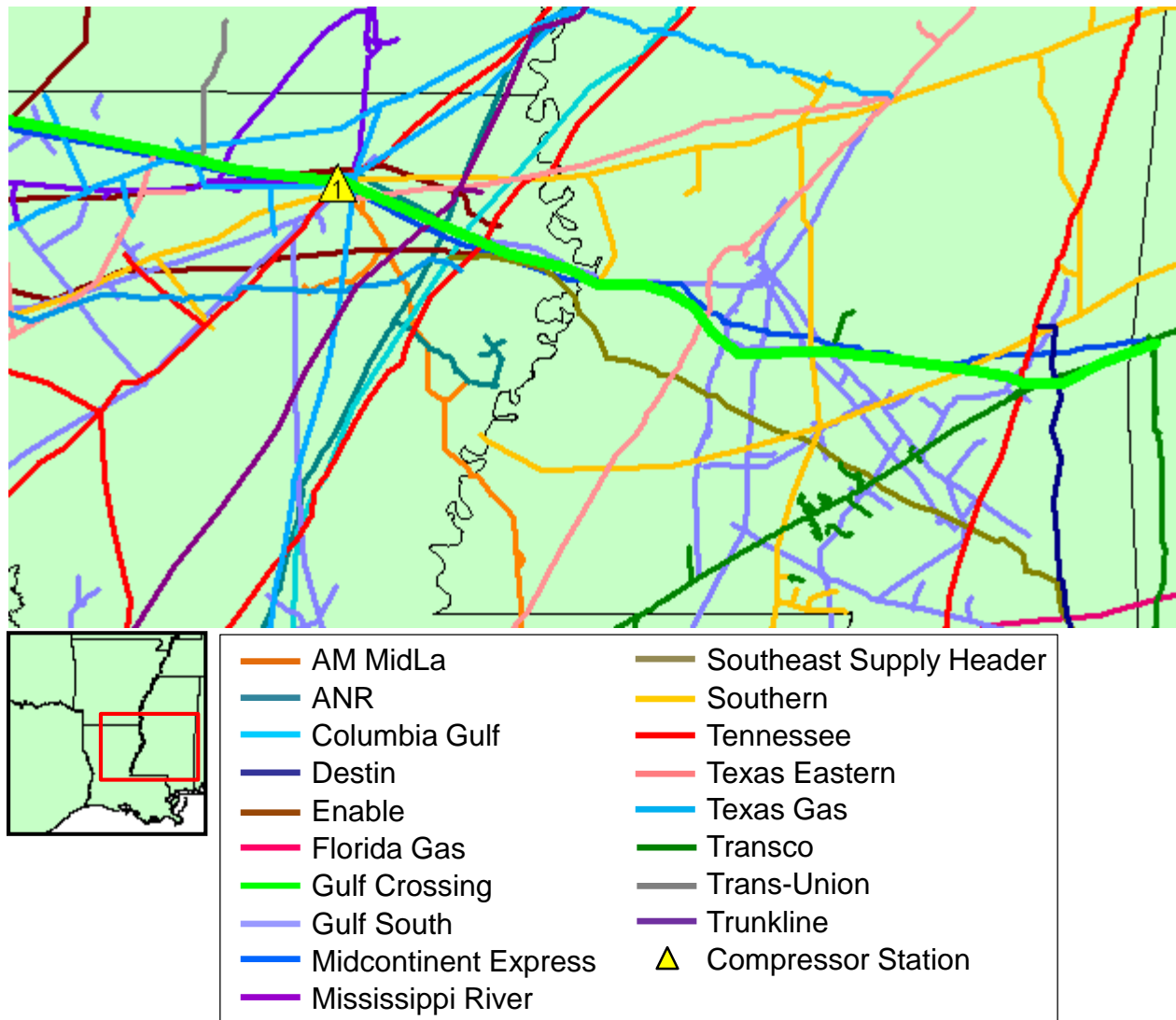


Figure A9-16. Gulf Crossing Facilities in MISO South

Table A9-22. Gulf Crossing Compressor Stations in MISO South

ID	Name	Location
1	Sterlington	Sterlington, LA

Gulf South (Boardwalk Pipeline Partners)

Capacity: 6,800 MMcf/d⁶

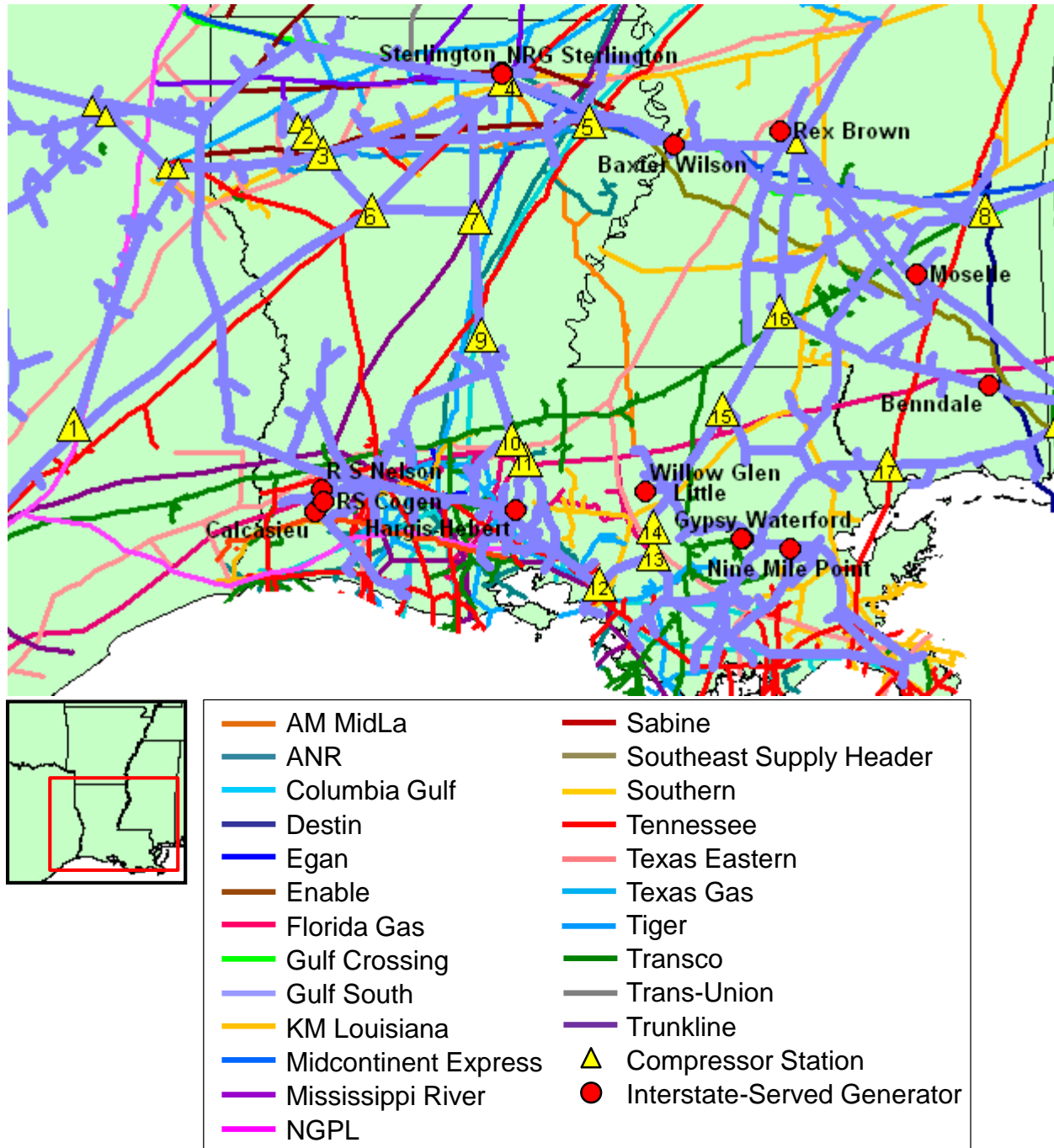


Figure A9-17. Gulf South Facilities in MISO South

⁶ Source: <http://www.gulfsouthpl.com/AboutUsGS.aspx>

Table A9-23. MISO South Generators Directly Connected to Gulf South

Generator	Capacity (MW)	Meter Name	Meter Number
Baxter Wilson	1,167	Baxter Wilson	2581
Benndale	16	Bendale	2602
Calcasieu	310	Calcasieu Power Lake Charles	20862
Hargis-Hebert	96	Hargis Hebert	21681
Little Gypsy	1,168	Little Gypsy Power	9141
Moselle	509	Moselle	2605
Nine Mile Point	1,564	Nine Mile	73
NRG Sterlington	177	N R G @ Sterlington	17577
R S Nelson	420	Roy Nelson	2993
Rex Brown	233	Rex Brown	2532
RS Cogen	235	Lake Charles Plant	9311
Sterlington	130	Sterlington Power	9258
Waterford 1 & 2	822	Waterford Power	9147
Willow Glen	650	Willow Glen	68

Table A9-24. Gulf South Compressor Stations in MISO South

ID	Name	Location
1	Goodrich	Goodrich, TX
2	Koran	Haughton, LA
3	Hall Summit	Ringgold, LA
4	Sterlington	Sterlington, LA
5	Delhi Side Unit	Delhi, LA
6	Clarence	Goldonna, LA
7	Olla	Olla, LA
8	Jackson	Flowood, MS
9	Marksville	Pineville, LA
10	Opelousas	Opelousas, LA
11	Arnaudville	Arnaudville, LA
12	Bayou Sale	Centerville, LA
13	Napoleonville	Napoleonville, LA
14	Rodrigue	Belle Rose, LA
15	Montpelier	Holden, LA
16	McComb	Jayess, MS
17	Kiln	Kiln, MS

Kinder Morgan Louisiana

Capacity: 2,130 MDth/d

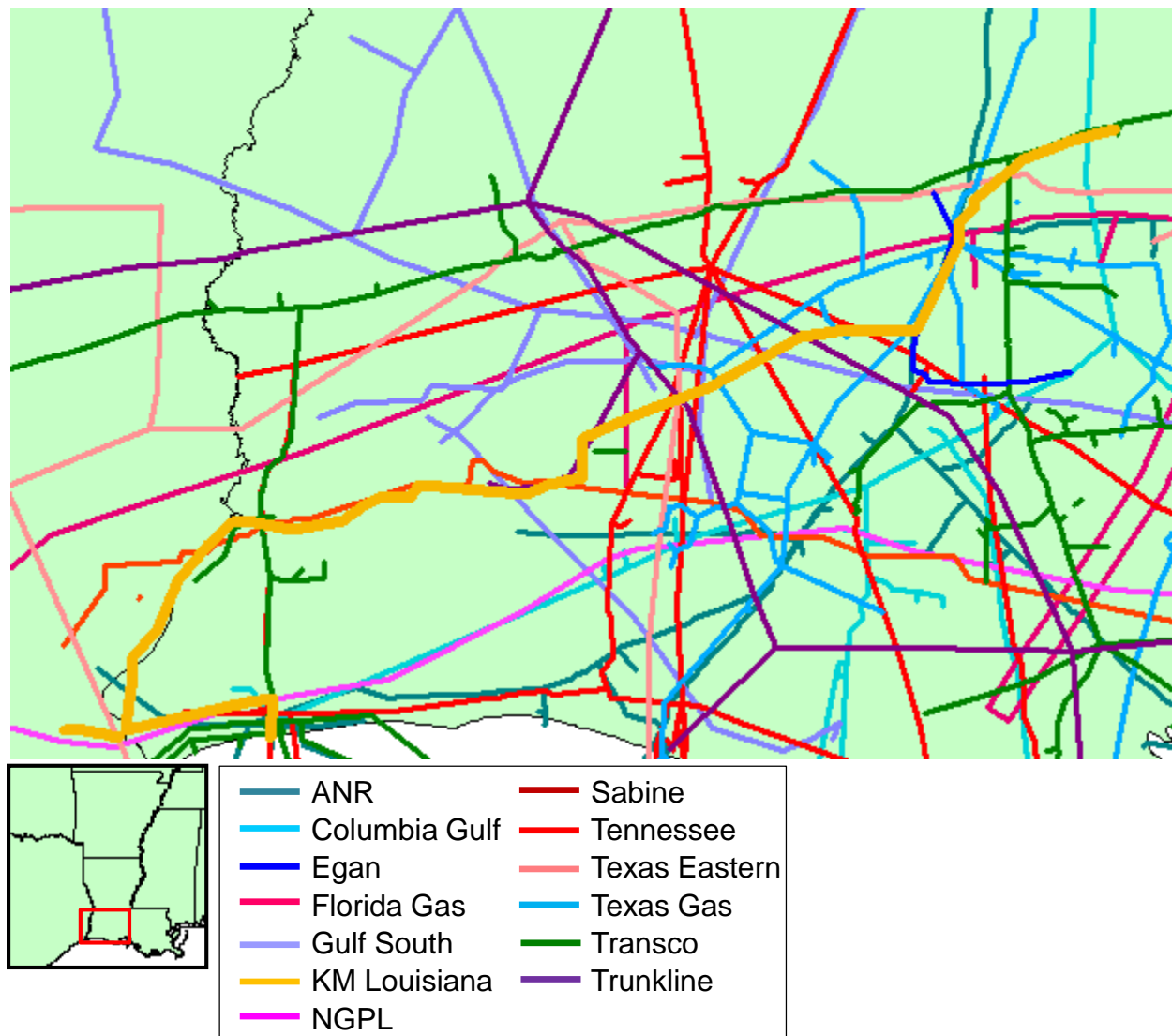


Figure A9-18. Kinder Morgan Louisiana Facilities

Midcontinent Express (Kinder Morgan / Regency Energy Partners)

Capacity: 1,823 MDth/d

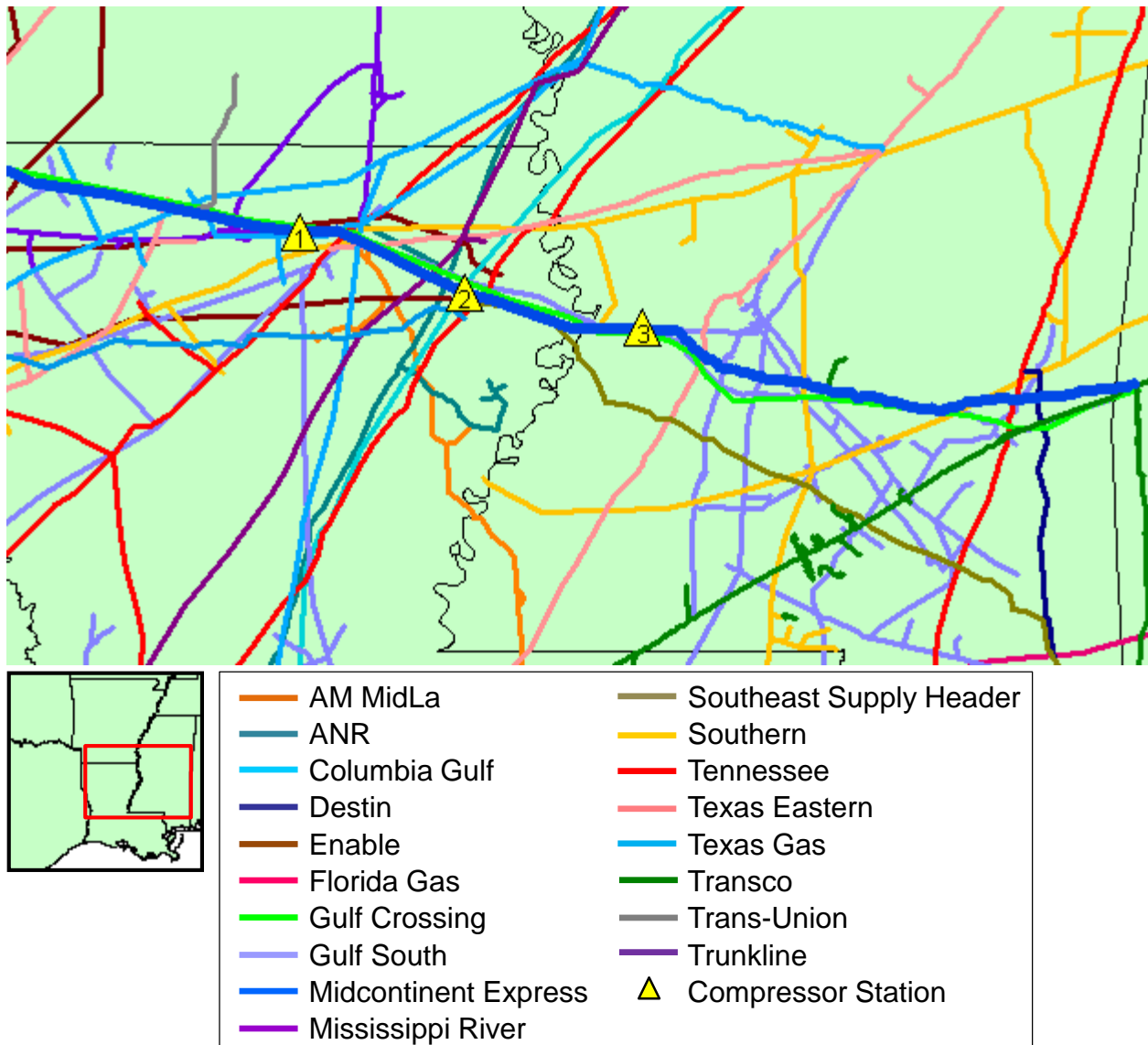


Figure A9-19. Midcontinent Express Facilities in MISO South

Table A9-25. Midcontinent Express Compressor Stations in MISO South

ID	Name	Location
1	Perryville	Farmerville, LA
2	Delhi	Delhi, LA
3	Vicksburg	Edwards, MS

Midwestern Gas Transmission (ONEOK)

Capacity: 513 MMcf/d (south to north) / 635 MMcf/d (north to south)

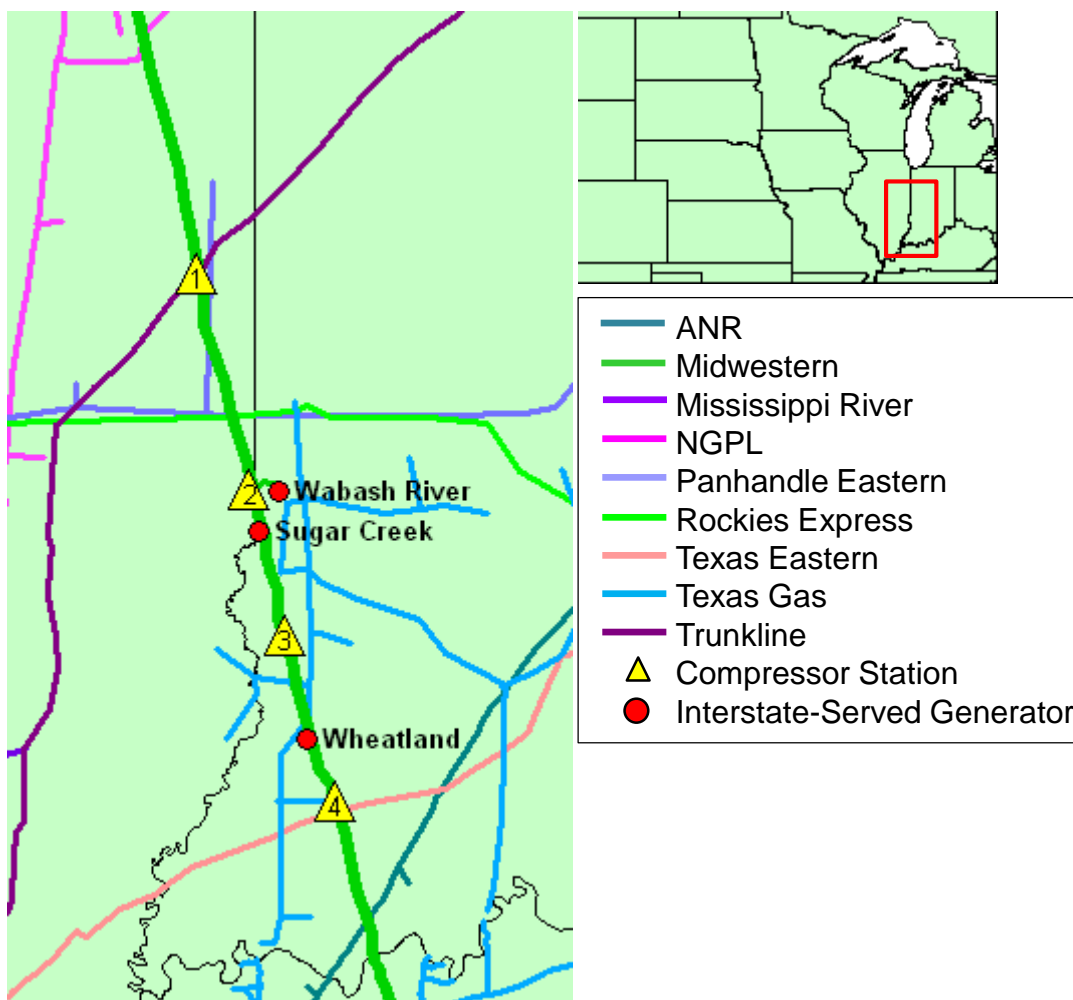


Figure A9-20. Midwestern Gas Transmission Facilities in MISO North/Central

Table A9-26. MISO North/Central Generators Directly Connected to Midwestern

Generator	Capacity (MW)	Meter Name	Meter Number
Sugar Creek	578	Sugar Creek	322225
Wabash River	282	Wabash	305590
Wheatland	488	Wheatland Power	281203

Table A9-27. Midwestern Compressor Stations in MISO North/Central

ID	Name	Location
1	Potomac	Potomac, IL
2	Paris	Paris, IL
3	Sullivan	Carlisle, IN
4	Petersburg	Petersburg, IN

Mississippi River Transmission (Enable Midstream Partners)

Capacity: 1,045 MDth/d

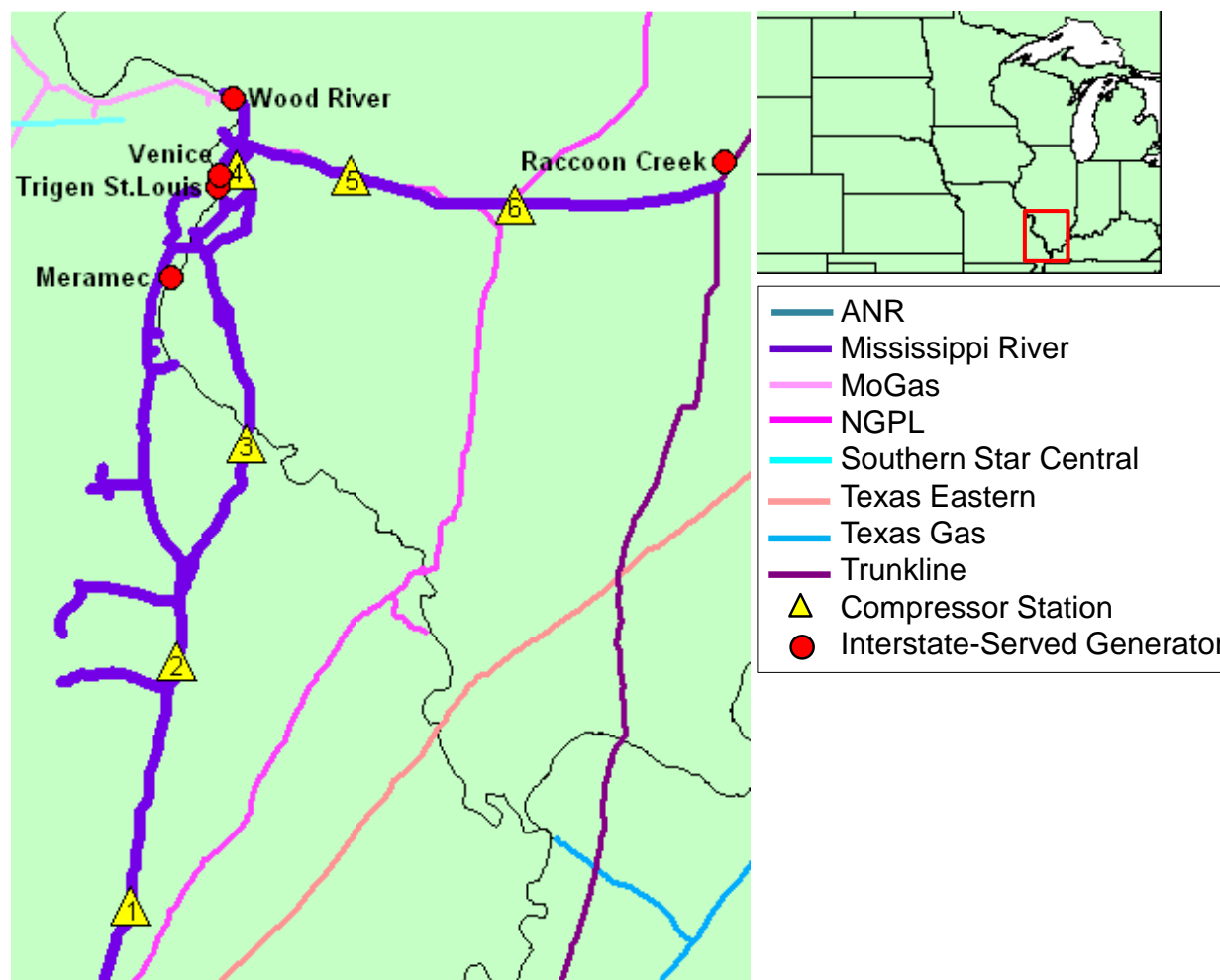


Figure A9-21. Mississippi River Transmission Facilities in MISO North/Central

Table A9-28. MISO North/Central Generators Directly Connected to Mississippi River

Generator	Capacity (MW)	Meter Name	Meter Number
Meramec	50	Ameren Power Plants	8368
Raccoon Creek	368	AmerenUE Raccoon Creek	13142
Trigen St. Louis	28	Trigen Energy-St Louis	5523
Venice	605	Ameren Power Plants	8368
Wood River ⁷	446	Ameren Power Plants	8368

⁷ Wood River uses coal as a primary fuel, natural gas is used for startup.

Table A9-29. Mississippi River Compressor Stations in MISO North/Central

ID	Name	Location
1	Poplar Bluff	Poplar Bluff, MO
2	Twelve Mile	Fredericktown, MO
3	Ste. Genevieve	Sainte Genevieve, MO
4	Horseshoe Lake	Granite City, IL
5	St. Jacob	Saint Jacob, IL
6	Shattuc	Shattuc, IL

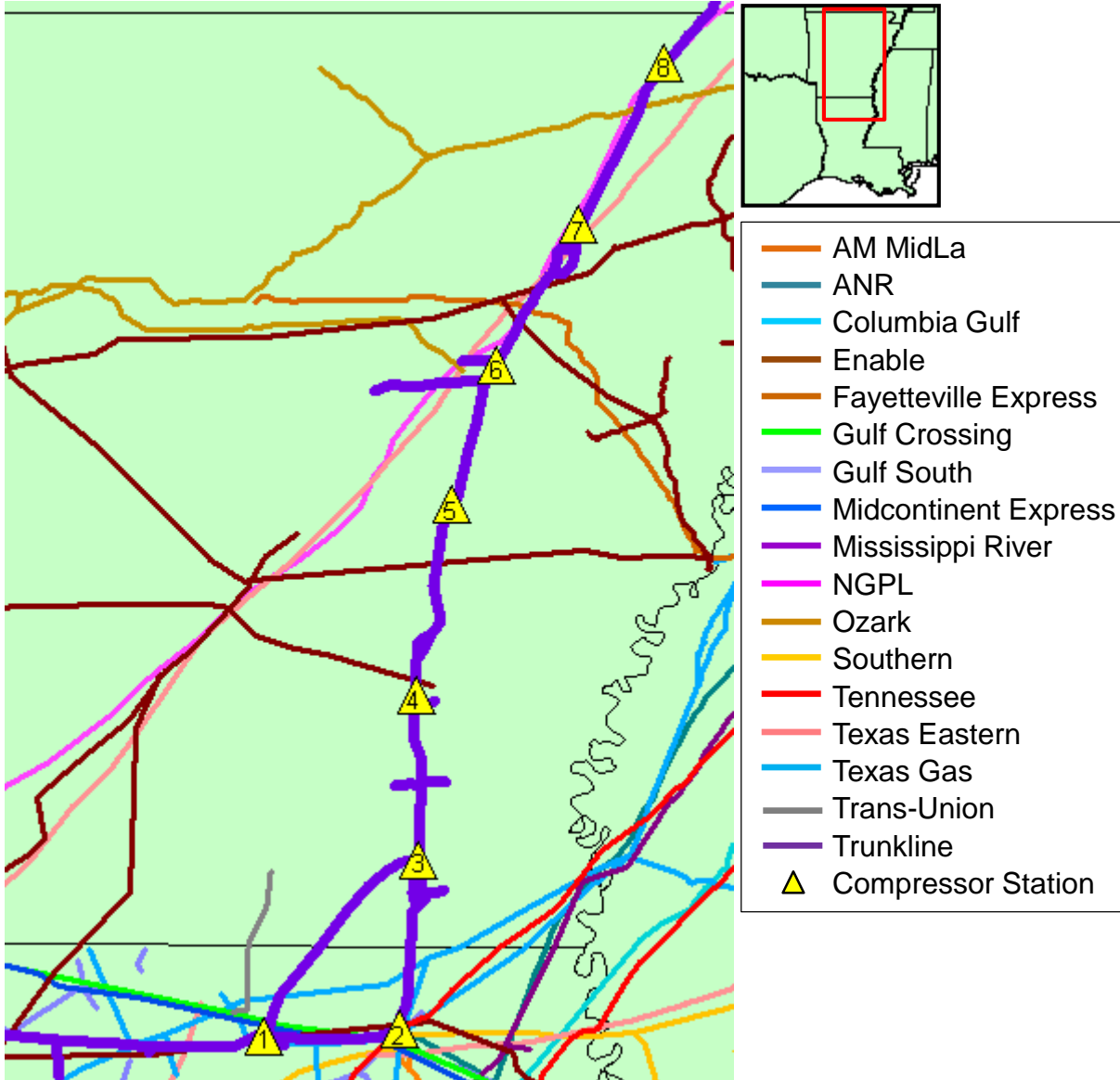


Figure A9-22. Mississippi River Transmission Facilities in MISO South

Table A9-30. Mississippi River Compressor Stations in MISO South

ID	Name	Location
1	Unionville	Dubach, LA
2	Perryville	Perryville, LA
3	Fountain Hill	Hamburg, AR
4	Glendale	Glendale, AR
5	Carlisle	Carlisle, AR
6	West Point	West Point, AR
7	Tuckerman	Tuckerman, AR
8	Biggers	Biggers, AR

MoGas Pipeline

Capacity: 95 MDth/d

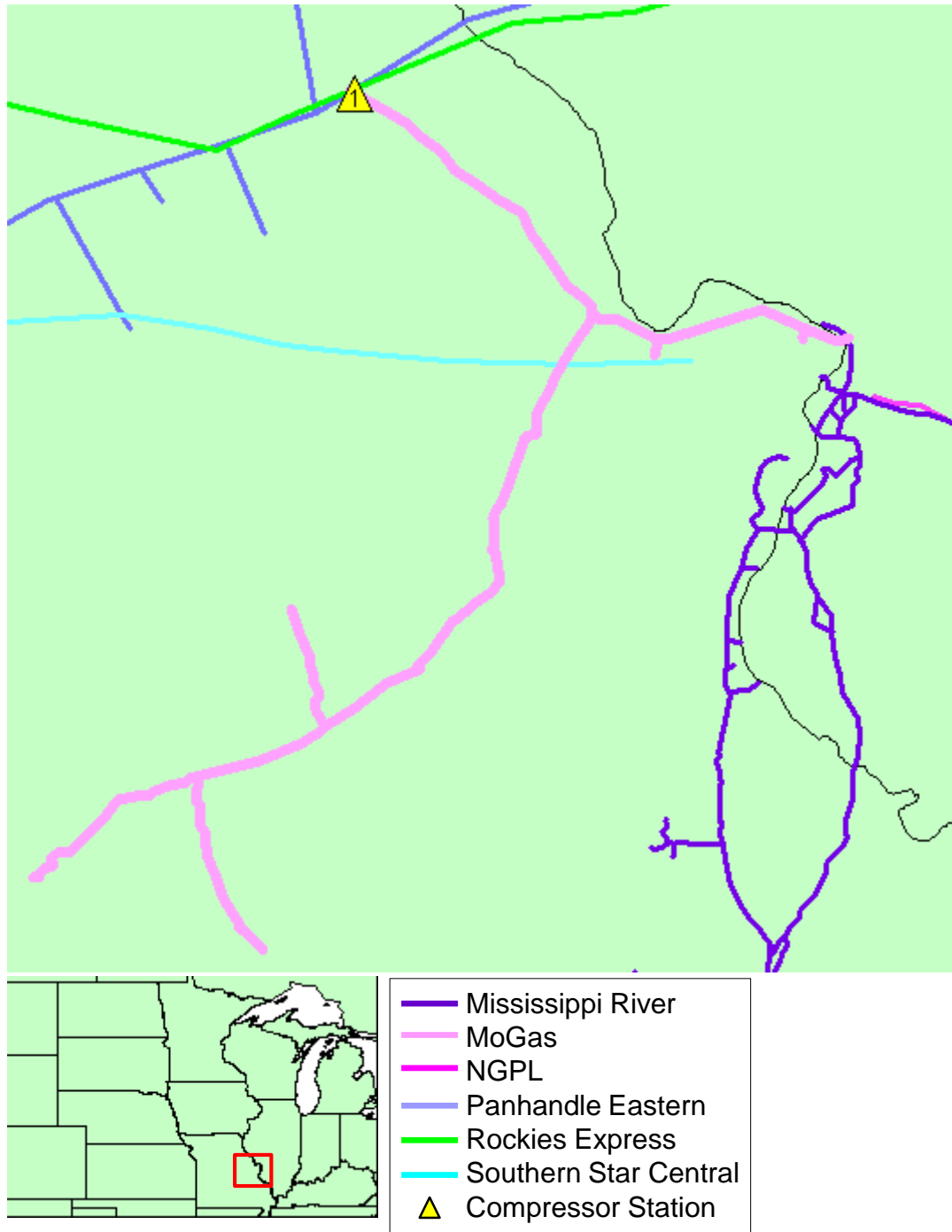


Figure A9-23. MoGas Pipeline Facilities in MISO North/Central

Table A9-31. MoGas Compressor Stations in North/Central

ID	Name	Location
1	Curryville	Curryville, MO

Natural Gas Pipeline Company of America (Kinder Morgan / Myria Acquisition)

Capacity: 4,491 MDth/d

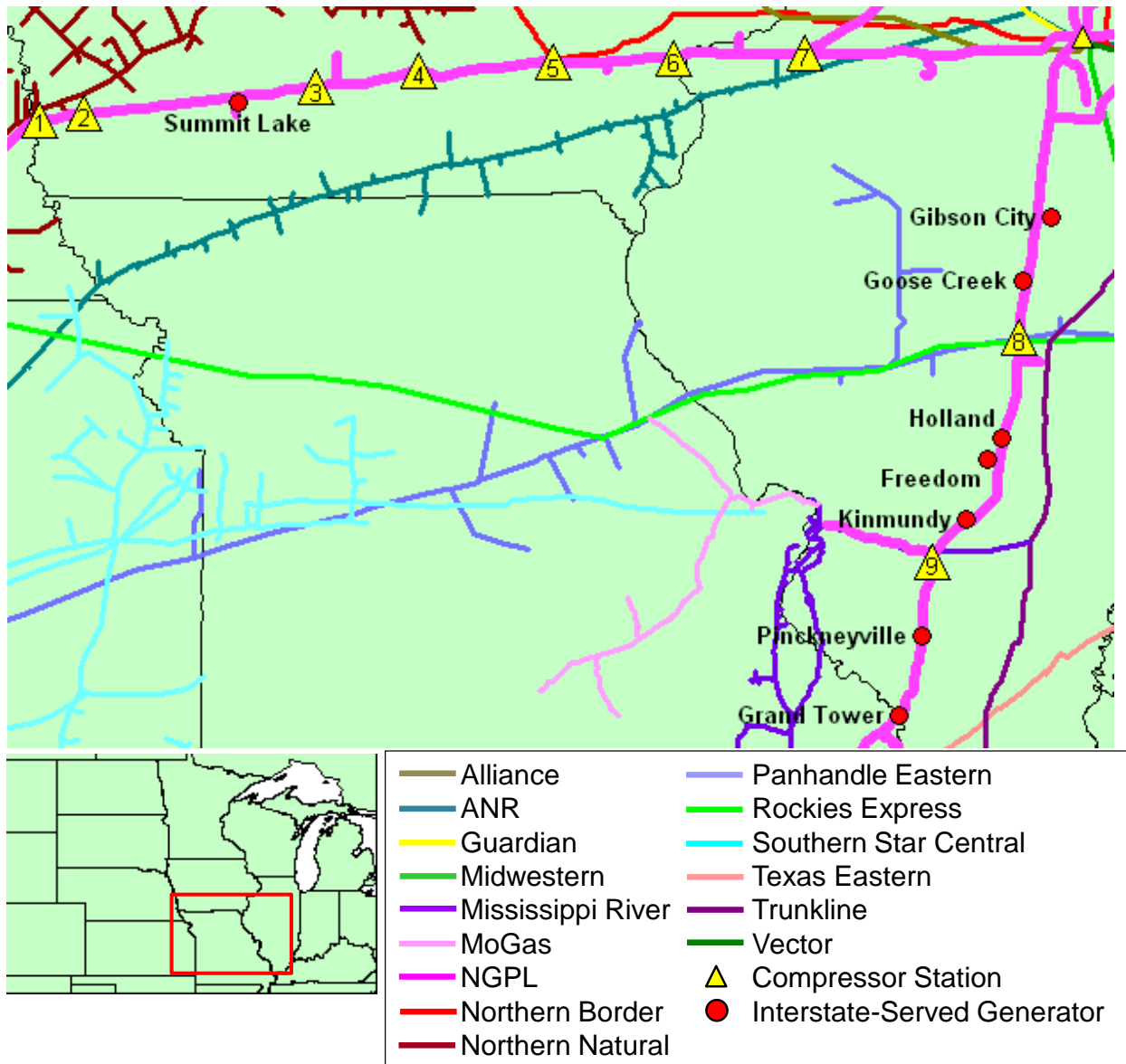


Figure A9-24. NGPL Facilities in MISO North/Central

Table A9-32. MISO North/Central Generators Directly Connected to NGPL

Generator	Capacity (MW)	Meter Name	Meter Number
Freedom Power	47	SWECI/NGPL Peaker Power Plant Faye	37036
Gibson City	270	Ameren/NGPL UEDC Gibson City Plant	N/A
Goose Creek	552	AmUE / NGPL Goose Creek Power Plt Pia	40250
Grand Tower	506	Gr Tower/NGPL Jackson	900176
Holland Energy	710	Holland/NGPL Holland Energy Plant S	39845
Kinmundy	260	AmUE / NGPL Kinmundy Plant Fayette	36779
Pinckneyville	368	Pickney / NGPL Perry	900175
Summit Lake	82	CIPCO/NGPL Central Iowa Power Co-Op	39548

Table A9-33. NGPL Compressor Stations in MISO North/Central

ID	Name	Location
1	Station 117	Glenwood, IA
2	Station 107	Emerson, IA
3	Station 108	Norwalk, IA
4	Station 198	Knoxville, IA
5	Station 109	Sigourney, IA
6	Station 199	Letts, IA
7	Station 110	Geneseo, IL
8	Station 311	Hammond, IL
9	Station 310	Centralia, IL

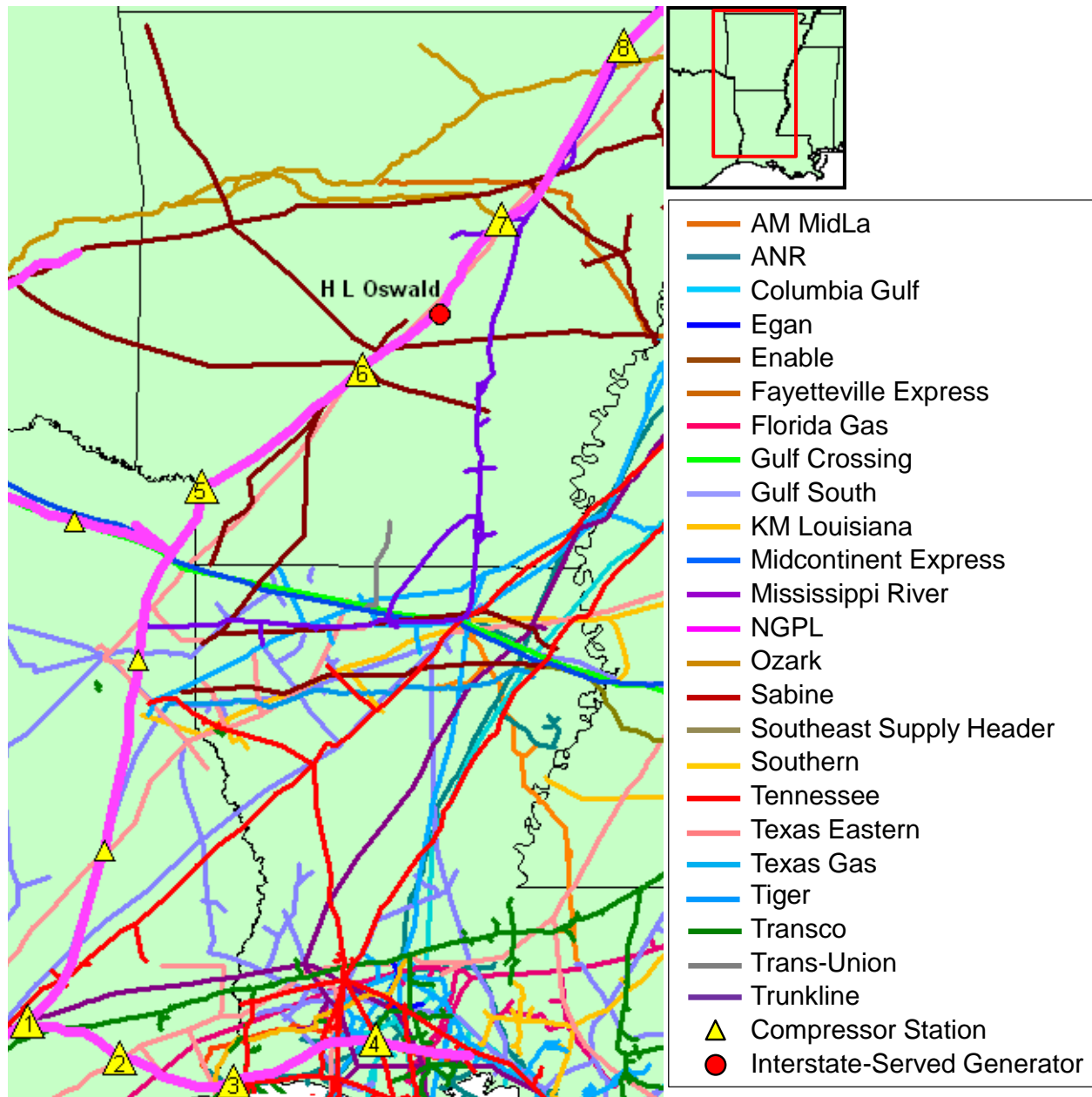


Figure A9-25. NGPL Facilities in MISO South

Table A9-34. MISO South Generators Directly Connected to NGPL

Generator	Capacity (MW)	Meter Name	Meter Number
Harry L Oswald	548	AECC / NGPL Wrightsville Plt Pulaski	37026

Table A9-35. NGPL Compressor Stations in MISO South

ID	Name	Location
1	Station 302	New Caney, TX
2	Station 343	Devers, TX
3	Station 342	Cameron, LA
4	Station 346	Lowry, LA
5	Station 305	Texarkana, AR
6	Station 306	Marvern, AR
7	Station 307	Searcy, AR
8	Station 308	Biggers, AR

Northern Border Pipeline (TransCanada / ONEOK)

Capacity: 2,574 MDth/d

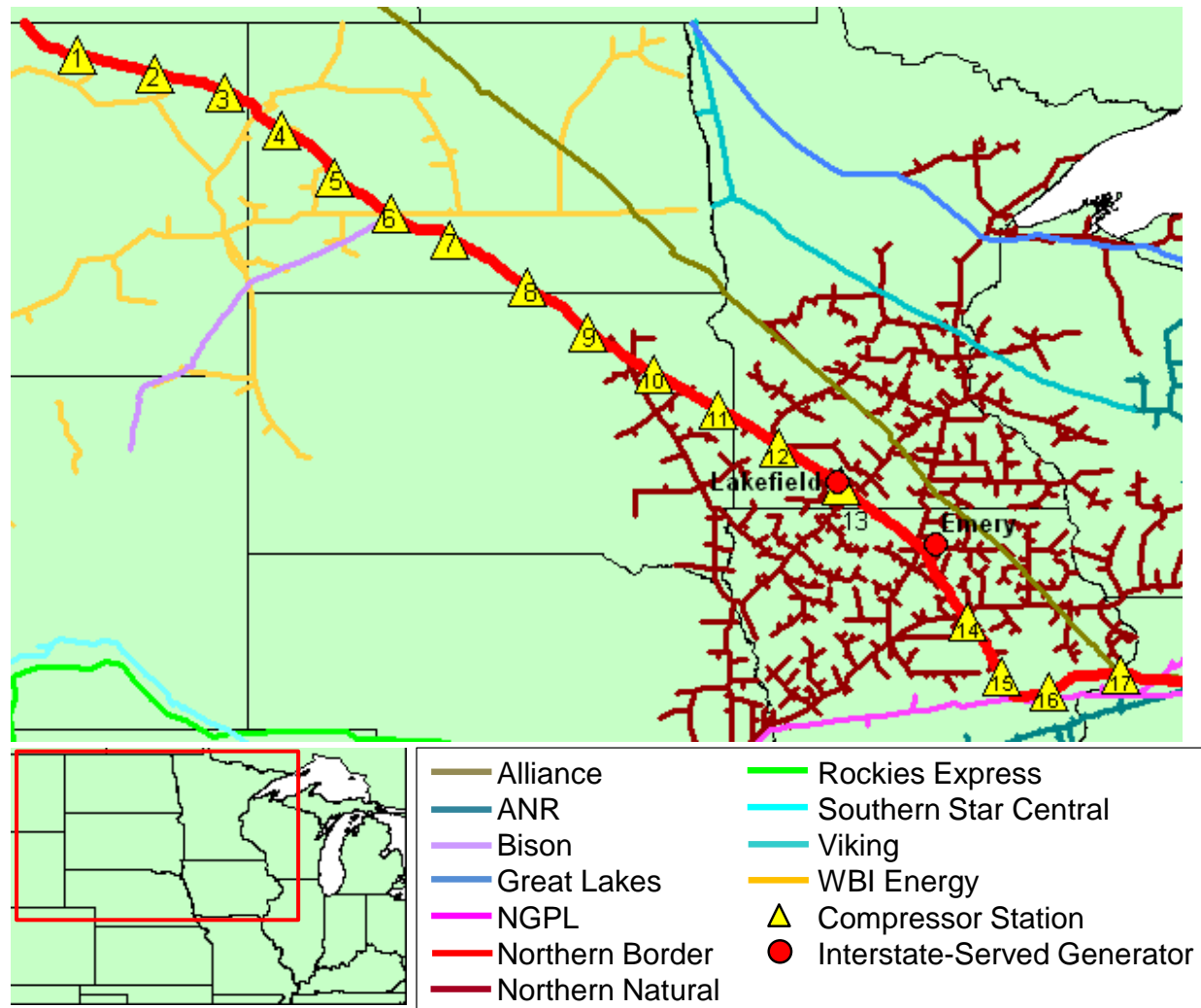


Figure A9-26. Northern Border Facilities in MISO North/Central

Table A9-36. MISO North/Central Generators Directly Connected to Northern Border

Generator	Capacity (MW)	Meter Name	Meter Number
Emery	382	Yale	378214
Lakefield Junction	594	Welcome	11958

Table A9-37. Northern Border Compressor Stations in MISO North/Central

ID	Name	Location
1	Glasgow	Glasgow, MT
2	Wolf Point	Wolf Point, MT
3	Culbertson	Culbertson, MT
4	Arnegard	Arnegard, ND
5	Manning	Manning, ND
6	Glen Ullin	Glen Ullin, ND
7	Saint Anthony	Saint Anthony, ND
8	Zeeland	Zeeland, ND
9	Wetonka	Westport, SD
10	Clark	Clark, SD
11	Estelline	Estelline, SD
12	Garvin	Garvin, MN
13	Trimont	Trimont, MN
14	Grundy Center	Grundy Center, IA
15	Station #15	Poweshiek County, IA
16	Lone Tree	Lone Tree, IA
17	Eldridge	Eldridge, IA

Northern Natural Gas (MidAmerican Energy Holdings)

Capacity: 1,482 MMcf/d (Oakland), 2,148 MMcf/d (Ventura North), 829 MMcf/d (Waterloo), 1,145 MMcf/d (Farmington to North Branch), 250 MMcf/d (Carlton to North Branch)⁸

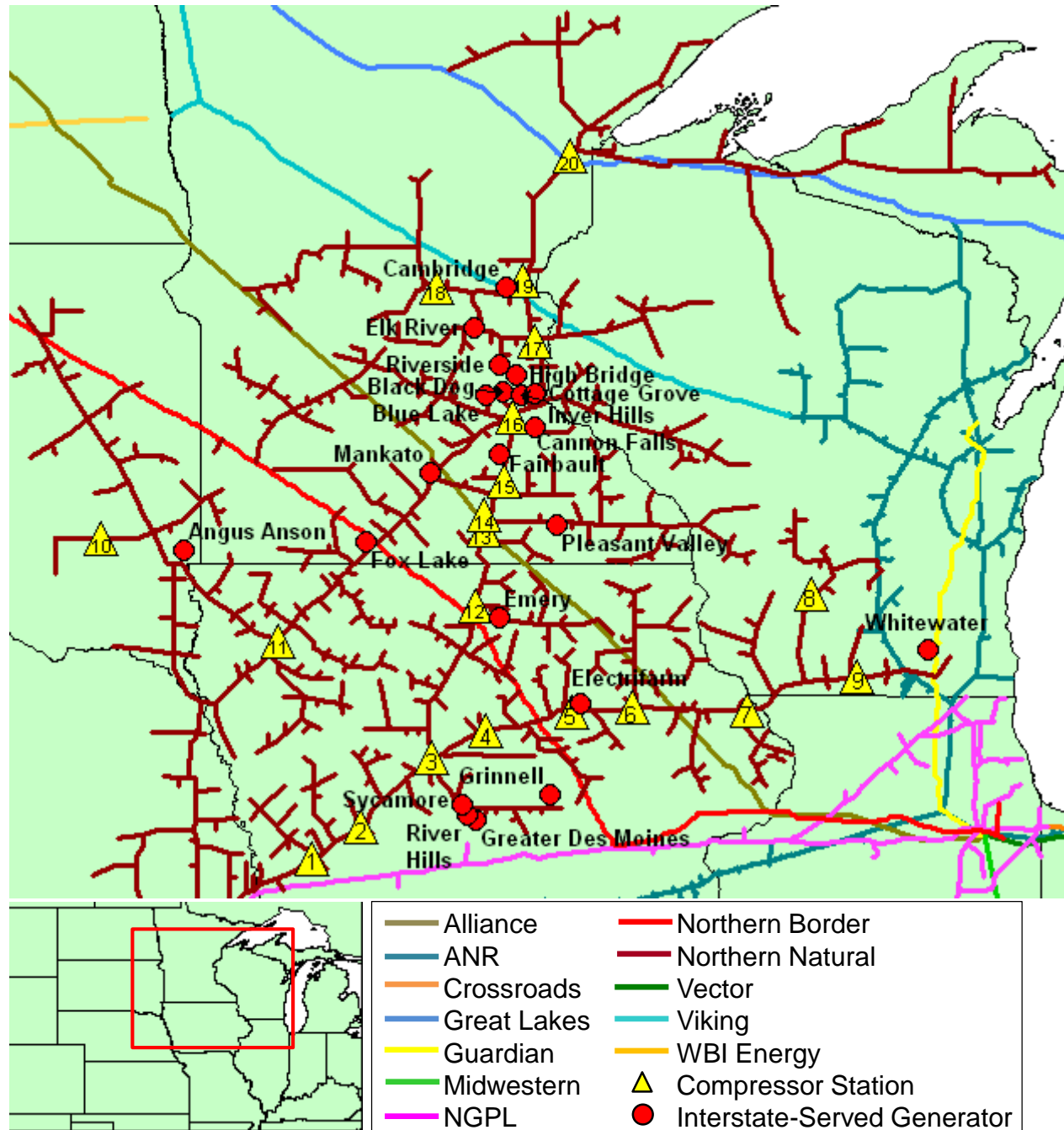


Figure A9-27. Northern Natural Gas Facilities in MISO North/Central

⁸ Capacity values are taken from the “Estimated Maximum Sustainable Capacity” column of Northern Natural’s Peak Day Capacity Report. The filing notes that “estimated sustainable capacity is the capacity that can be sustained for 151 days during the heating season based on the primary receipt and delivery locations.”

Table A9-38. MISO North/Central Generators Directly Connected to Northern Natural

Generator	Capacity (MW)	Meter Name	Meter Number
Angus Anson	432	Angus C. Anson SD #1	60816
Black Dog	305	Black Dog Power Plant	78625
Blue Lake	343	Blue Lake Power Station	78555
Cambridge	190	GRE Cambridge Power Plant	78914
Cannon Falls	356	Cannon Falls Energy Center	78948
Cottage Grove	273	Cottage Grove MN (LS Power)	62890
Electrifarm	243	Waterloo IA #1A	3351
Elk River	220	GRE Elk River Plant	78964
Emery	382	Clear Lake WI #1	3976
Fairbault	255	MMPA/Fairbault Power Plant	78469
Fox Lake	88	Sherburn MN #2	12954
Greater Des Moines	570	Pleasant Hill IA #1	78195
Grinnell	50	Grinnell IA #1	2867
High Bridge	540	High Bridge Power Plant	78626
Inver Hills	428	Inver Hills Power Plant	79046
Mankato Energy Center	367	Mankato Energy Center	78553
Pleasant Valley	493	Pleasant Valley Power Plant	78072
River Hills	150	Des Moines IA #1A	2777
Riverside	624	Riverside Power Plant	78627
Sycamore	190	Johnston IA #1	2778
Whitewater Cogen	257	Whitewater (LS Power)	62883

Table A9-39. Northern Natural Compressor Stations in MISO North/Central

ID	Name	Location
1	Oakland	Oakland, IA
2	Guthrie Center	Guthrie Center, IA
3	Ogden	Ogden, IA
4	Waterloo	Waterloo, IA
5	Hubbard	Hubbard, IA
6	Earlville	Delhi, IA
7	Galena	Jo Daviess County, IL
8	Spring Green	Spring Green, WI
9	Belleville	Monroe, WI
10	Spencer	Spencer, IA
11	Paulina	Paulina, IA
12	Ventura	Ventura, IA
13	Albert Lea	Hartland, MN
14	Owatonna	Owatonna, MN
15	Faribault	Faribault, MN
16	Farmington	Farmington, MN
17	Hugo	Hugo, MN
18	Popple Creek	Sauk Rapids, MN
19	North Branch	North Branch, MN
20	Carlton	Carlton, MN

Ozark Gas Transmission (Spectra Energy)

Capacity: 519 MDth/d

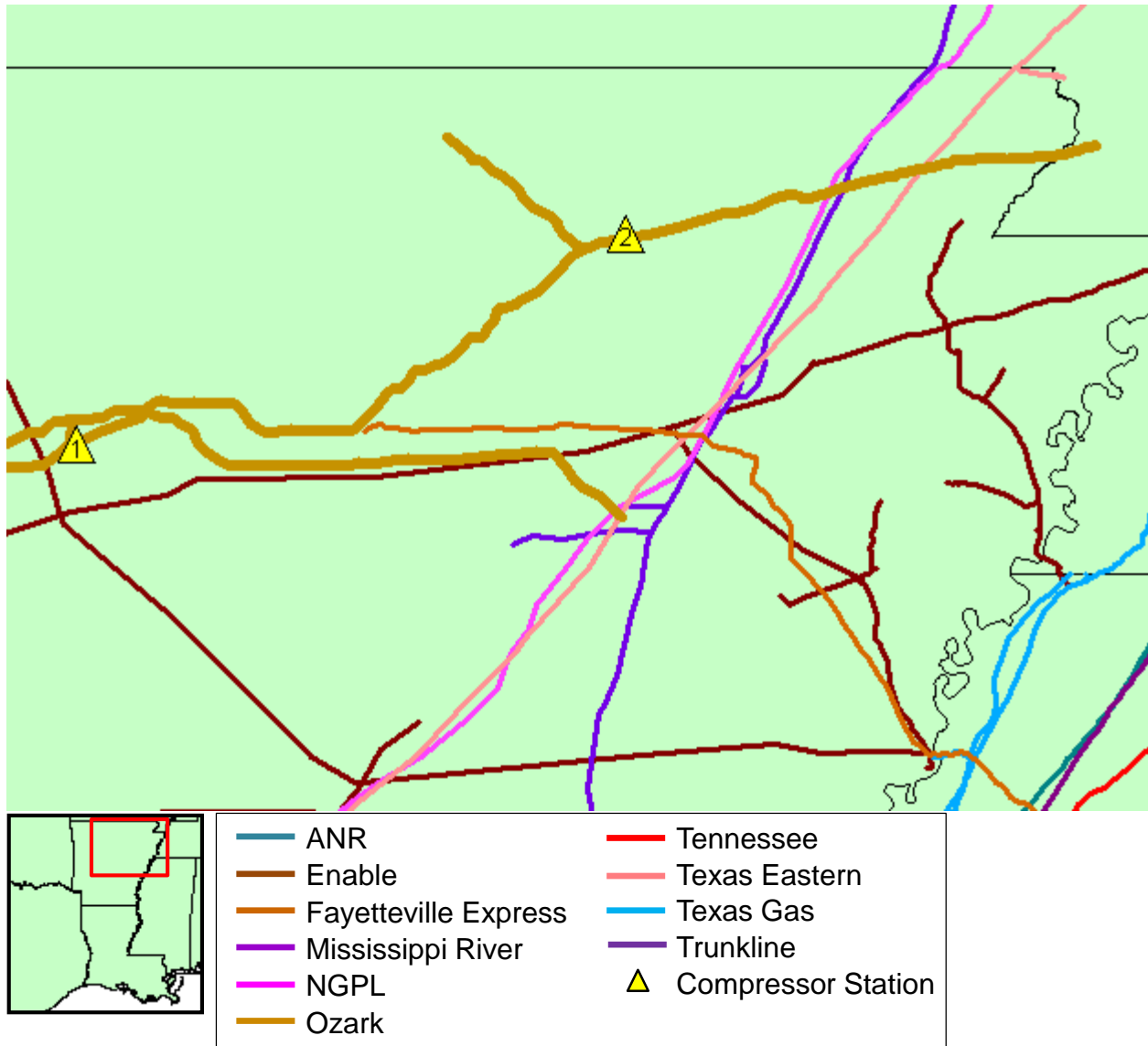


Figure A9-28. Ozark Gas Transmission Facilities in MISO South

Table A9-40. Ozark Gas Compressor Stations in MISO South

ID	Name	Location
1	Noark	Alix, AR
2	Standing Rock	Mount Pleasant, AR

Panhandle Eastern (Energy Transfer Partners)

Capacity: 2,840 MDth/d

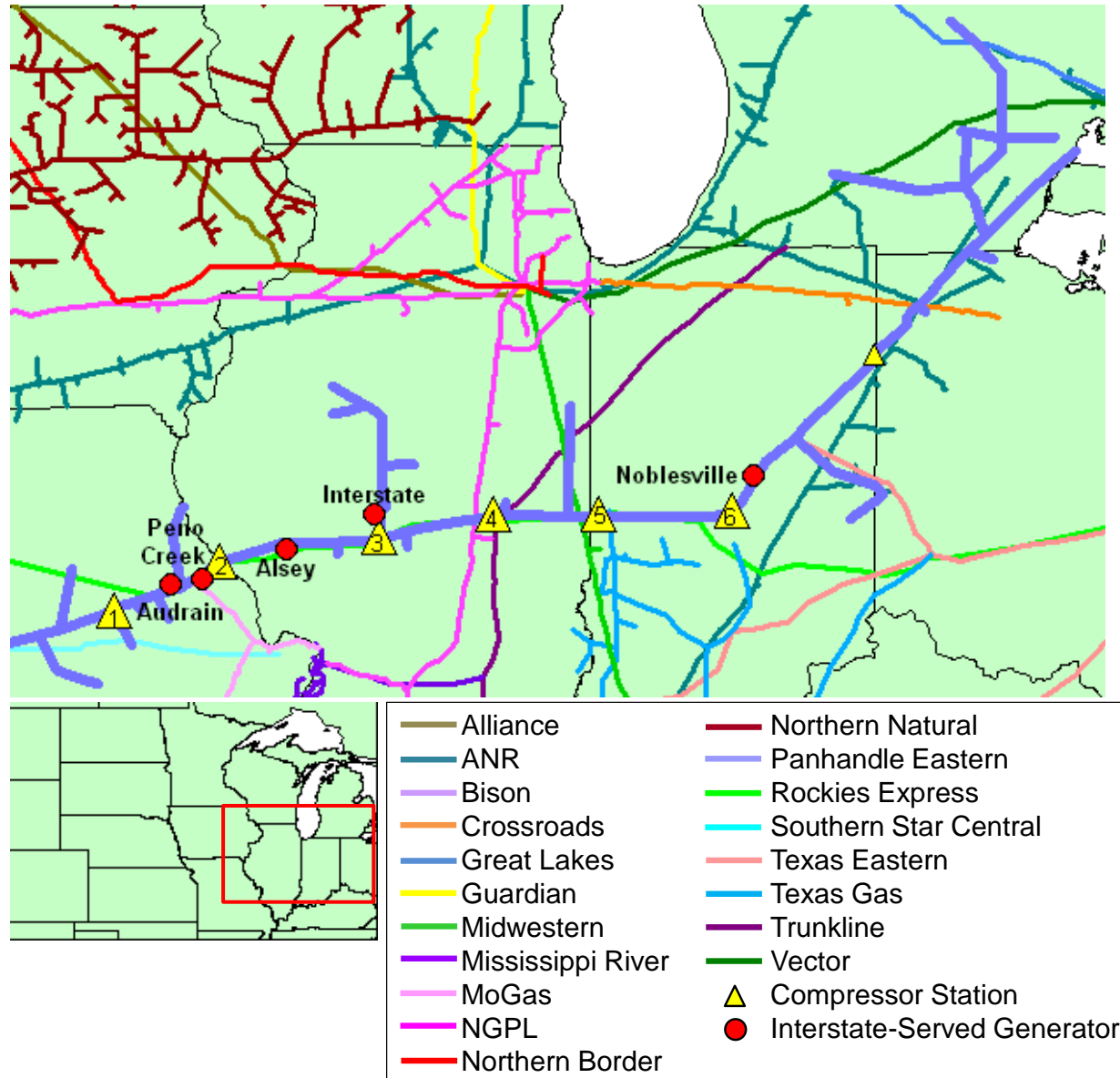


Figure A9-29. Panhandle Eastern Facilities in MISO North/Central

Table A9-41. MISO North/Central Generators Directly Connected to Panhandle Eastern

Generator	Capacity (MW)	Meter Name	Meter Number
Alsey	120	Alsey Refractories	02096
Audrain	736	Audrain Power Plant - Union Electric dba Ameren MO	09235
Interstate	134	CWLP	09219
Noblesville	310	Noblesville Plant - Duke Energy Indiana	02861
Peno Creek	260	Peno Creek Power Plant - Union Electric Co dba Ameren MO	09242

Table A9-42. Panhandle Eastern Compressor Stations in MISO North/Central

ID	Name	Location
1	Centralia	Centralia, MO
2	Pleasant Hill	Pleasant Hill, IL
3	Glenarm	Glenarm, IL
4	Tuscola	Tuscola, IL
5	Montezuma	Montezuma, IN
6	Zionsville	Indianapolis, IN

Rockies Express (Tallgrass / Sempra / Phillips 66)

Capacity: 2,000 MDth/d

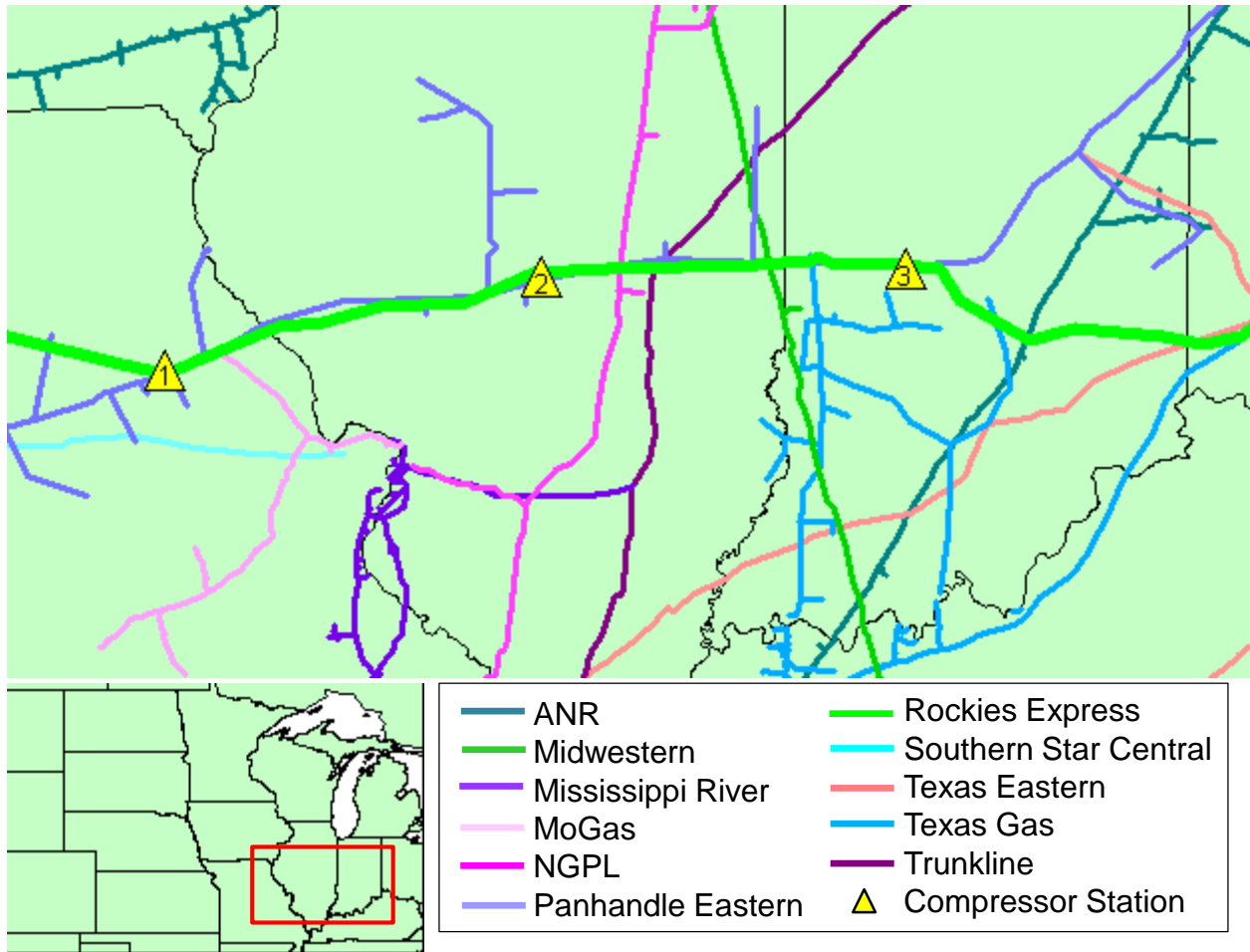


Figure A9-30. Rockies Express Facilities in MISO North/Central

Table A9-43. Rockies Express Compressor Stations in MISO North/Central

ID	Name	Location
1	Mexico	Mexico, MO
2	Blue Mound	Christian County, IL
3	Bainbridge	Bainbridge, IN

Sabine Pipeline

Capacity: 235 MDth/d

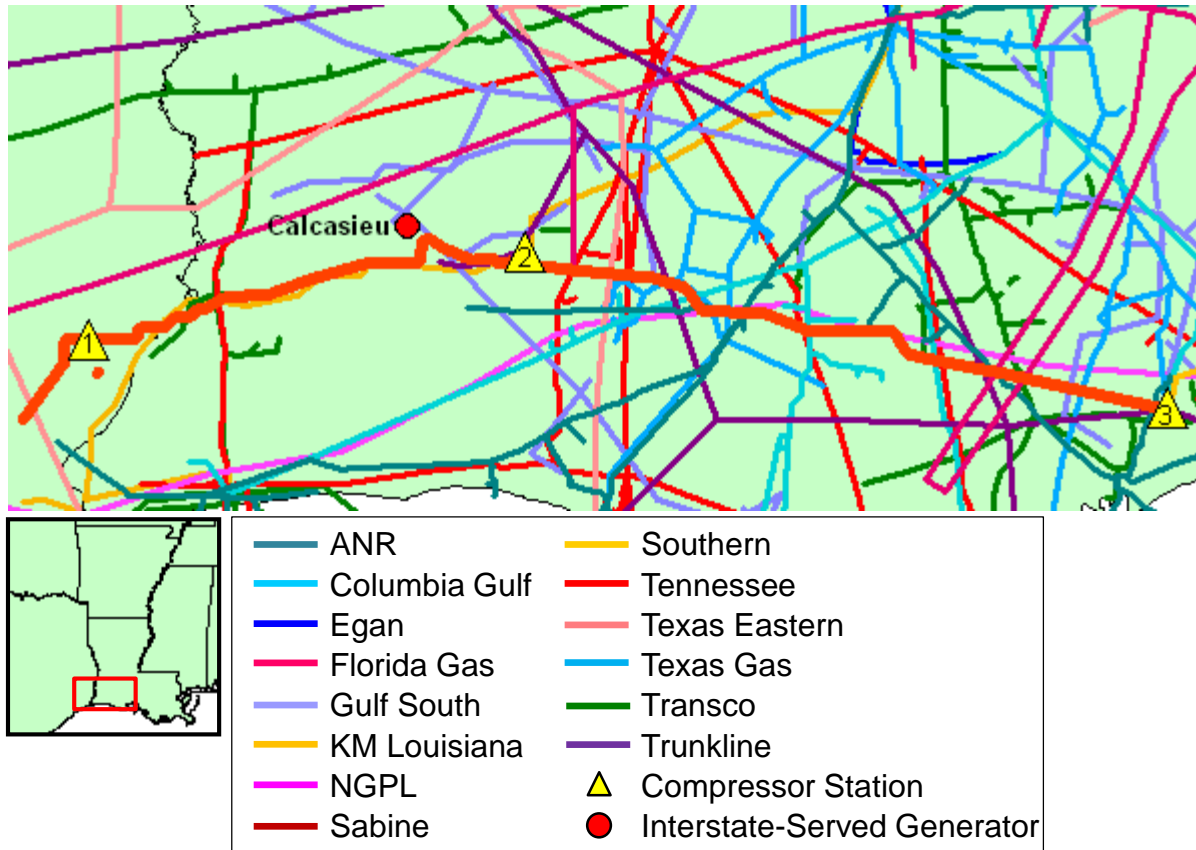


Figure A9-31. Sabine Pipeline Facilities in MISO South

Table A9-44. MISO South Generators Directly Connected to Sabine

Generator	Capacity (MW)	Meter Name	Meter Number
Calcasieu	310	Calcasieu Power	CALP

Table A9-45. Sabine Compressor Stations in MISO South

ID	Name	Location
1	Port Neches	Port Neches, TX
2	Holmwood	Sulphur, LA
3	Henry Hub	Erath, MA

Southeast Supply Header (Enable Midstream Partners / Spectra Energy)

Capacity: 1,025 MDth/d

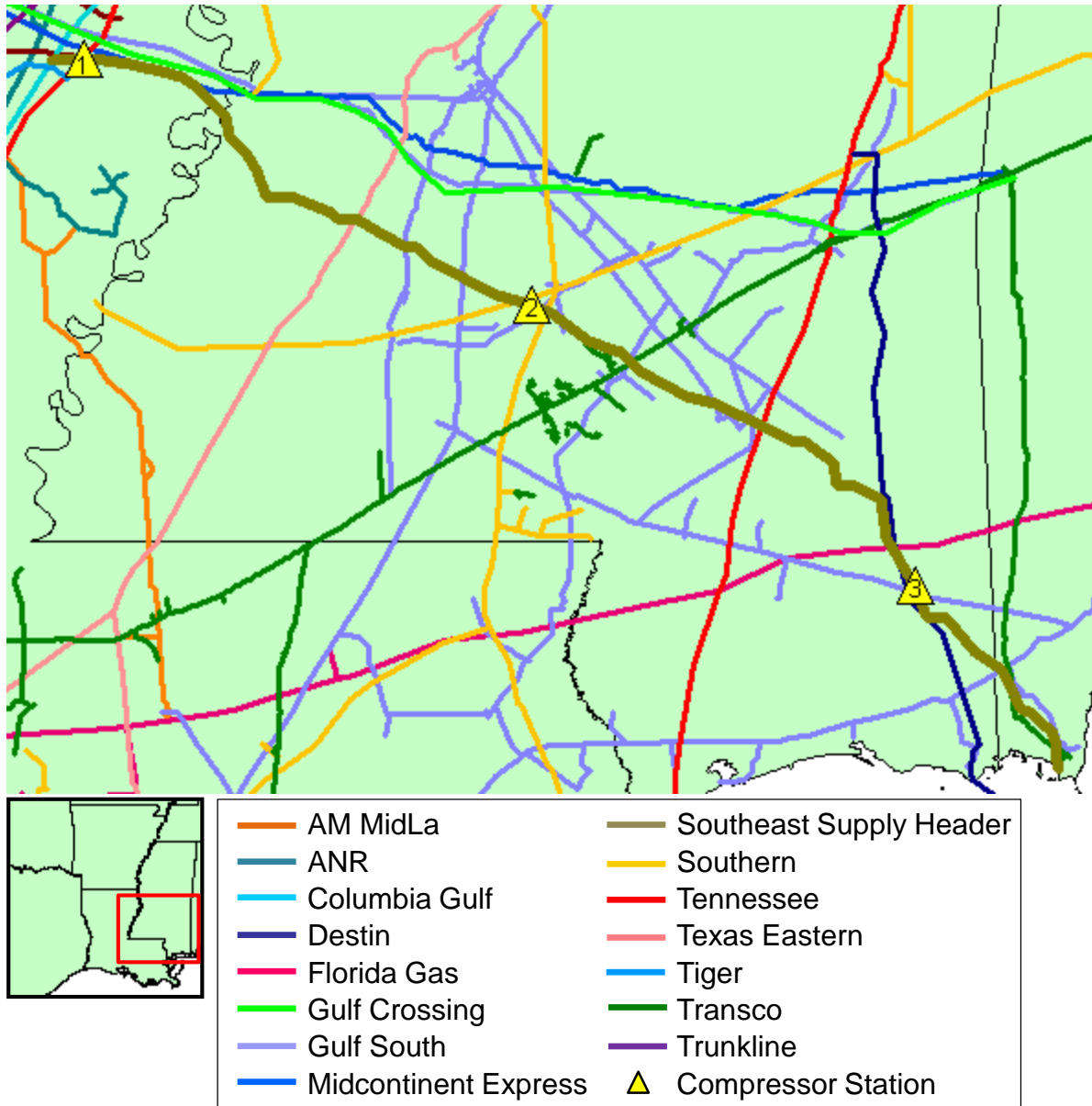


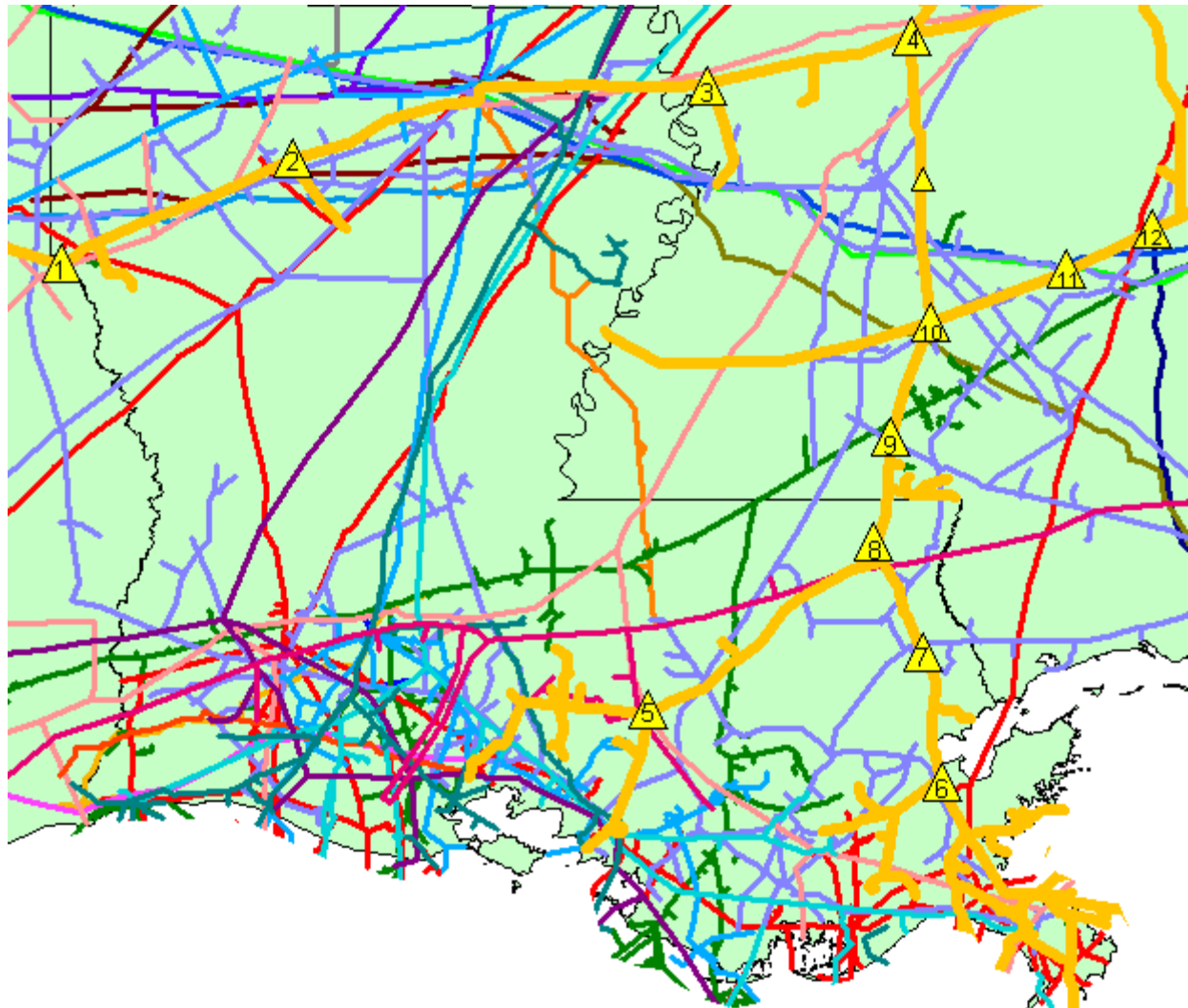
Figure A9-32. Southeast Supply Header Facilities

Table A9-46. Southeast Supply Header Compressor Stations in MISO South

ID	Name	Location
1	Delhi	Delhi, LA
2	Gwinville	Gwinville, MS
3	Lucedale	Lucedale, MS

Southern Natural Gas (Kinder Morgan)

Capacity: 3,940 MMcf/d



AM MidLa	NGPL
ANR	Sabine
Columbia Gulf	Southeast Supply Header
Destin	Southern
Egan	Tennessee
Enable	Texas Eastern
Florida Gas	Texas Gas
Gulf Crossing	Tiger
Gulf South	Transco
KM Louisiana	Trans-Union
Midcontinent Express	Trunkline
Mississippi River	Compressor Station

Figure A9-33. Southern Natural Gas Facilities in MISO South

Table A9-47. Southern Compressor Stations in MISO South

ID	Name	Location
1	Logansport	Logansport, LA
2	Bienville	Bienville, LA
3	Onward	Cary, MS
4	Pickens	Pickens, MS
5	White Castle	Cannonburg, LA
6	Toca	St. Bernard, LA
7	Lacombe	Lacombe, LA
8	Franklinton	Amite, LA
9	Pearl River	Foxworth, MS
10	Gwinville	New Hebron, MS
11	Bay Springs	Bay Springs, MS
12	Enterprise	Heidelberg, MS

Southern Star Central

Capacity: 43 MDth/d (Laclede meter design capacity), 31 MDth/d (Contracted deliveries at Laclede meter)⁹

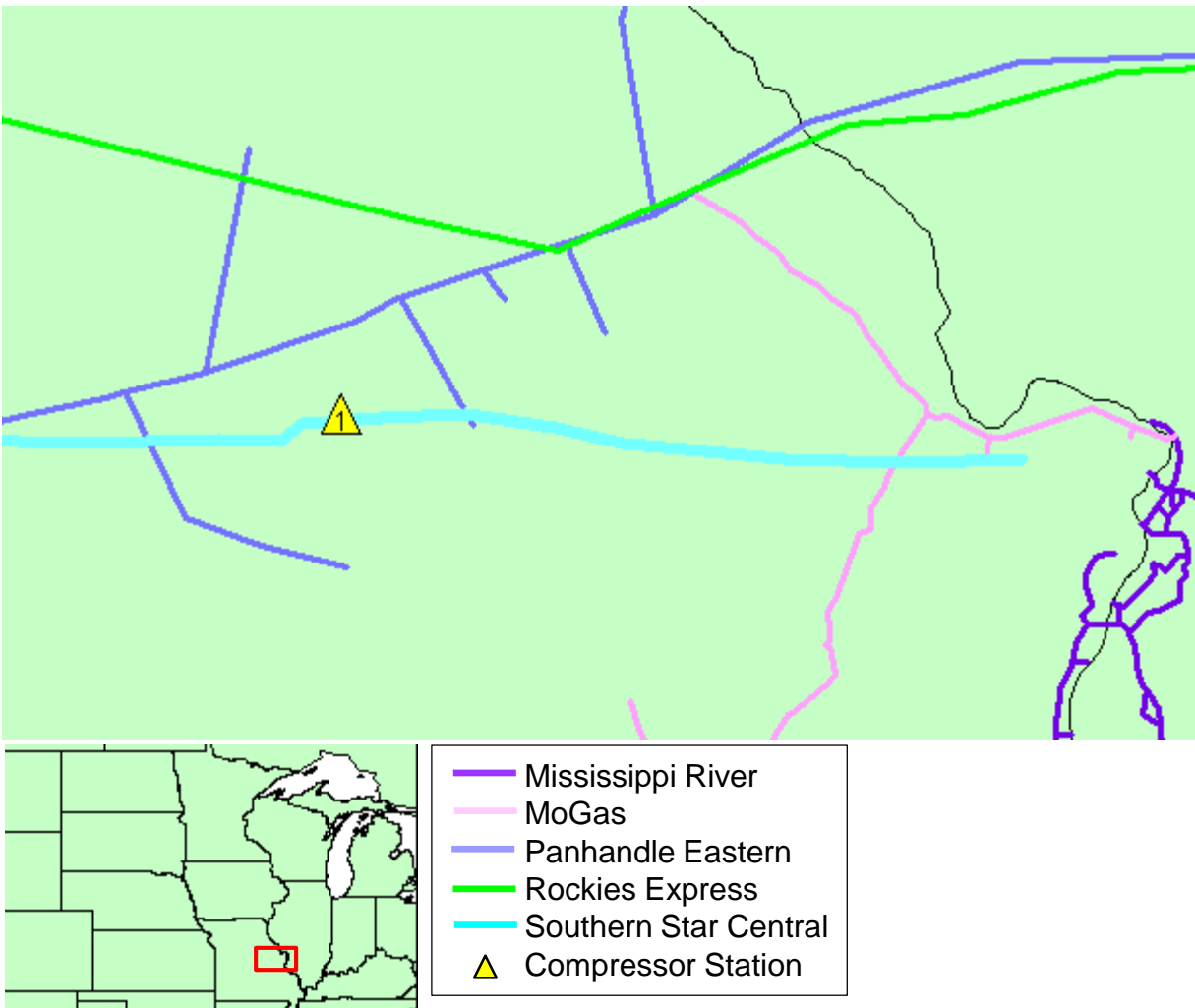


Figure A9-34. Southern Star Central Facilities in MISO North/Central

Table A9-48. Southern Star Central Compressor Stations in MISO North/Central

ID	Name	Location
1	Columbia	Columbia, MO

⁹ Laclede is Southern Star Central’s only delivery point in MISO.

Tennessee Gas Pipeline (Kinder Morgan)

Capacity: 3,356 MMcf/d (Station 87)

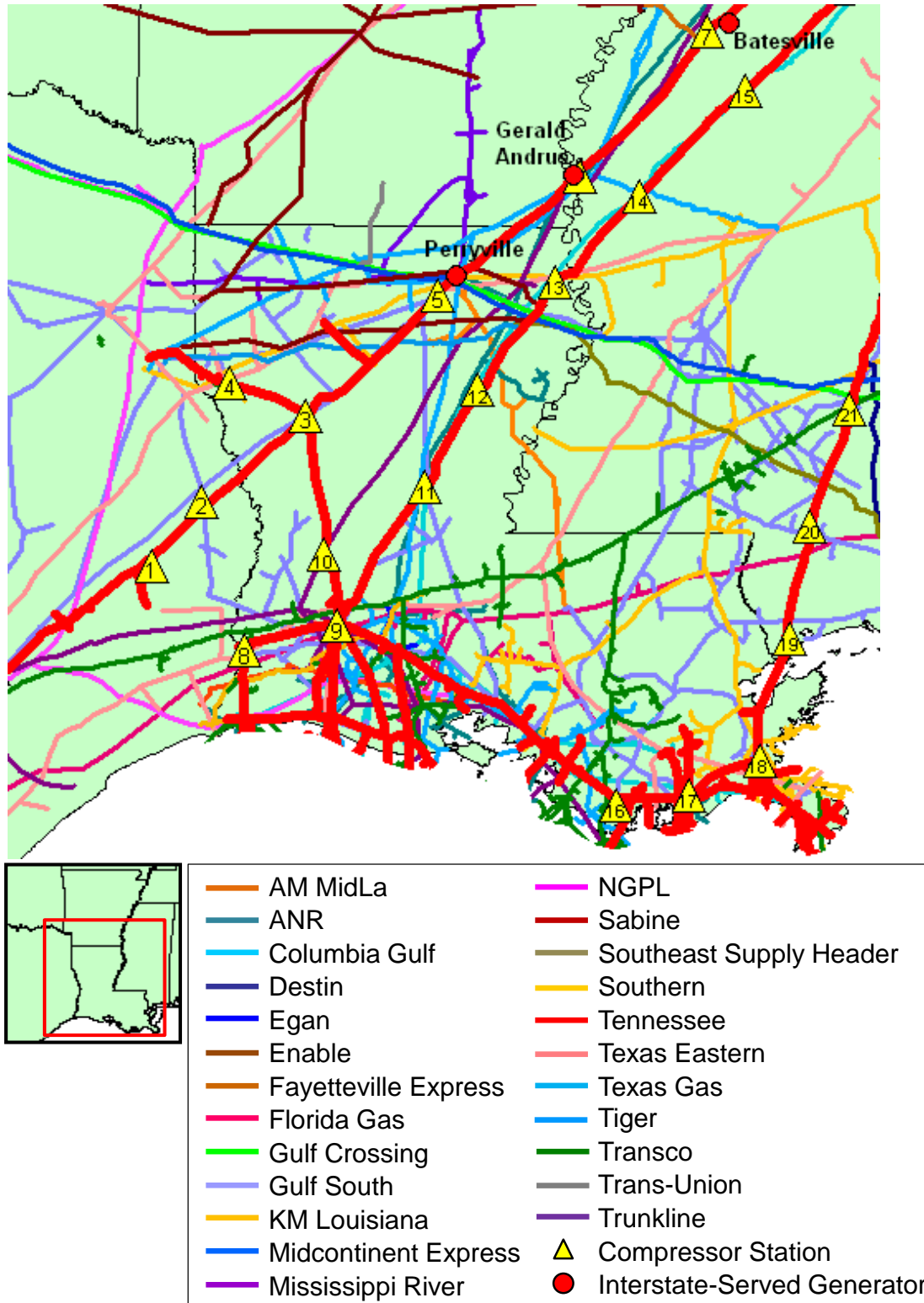


Figure A9-35. Tennessee Facilities in MISO South

Table A9-49. MISO South Generators Directly Connected to Tennessee

Generator	Capacity (MW)	Meter Name	Meter Number
Batesville	837	So Miss/TGP Batesville Panola	420900
Gerald Andrus	640	Ent MS/TGP Power Rivers Sales Washi	420712
Perryville	691	EntrgyLA/TGP Perryville Power Ouach	421062

Table A9-50. Tennessee Compressor Stations in MISO South

ID	Name	Location
1	Station 25	Cleveland, TX
2	Station 32	Jasper, TX
3	Station 40	Natchitoches, LA
4	Station 703A	Mansfield, LA
5	Station 47	West Monroe, LA
6	Station 54	Greenville, MS
7	Station 63	Batesville, MS
8	Station 820	Vinton, LA
9	Station 823	Kinder, LA
10	Station 504	Pitkin, LA
11	Station 827	Alexandria, LA
12	Station 834	Extension, LA
13	Station 838	Transylvania, LA
14	Station 843	Isola, MS
15	Station 847	Coffeerville, MS
16	Station 523	Chauvin, LA
17	Station 524	Golden Meadow, LA
18	Station 527	Port Sulphur, LA
19	Station 530	Bay Saint Louis, MS
20	Station 534	Purvis, MS
21	Station 538	Heidelberg, MS

Texas Eastern Transmission (Spectra Energy)

Capacity: 8,877 MDth/d

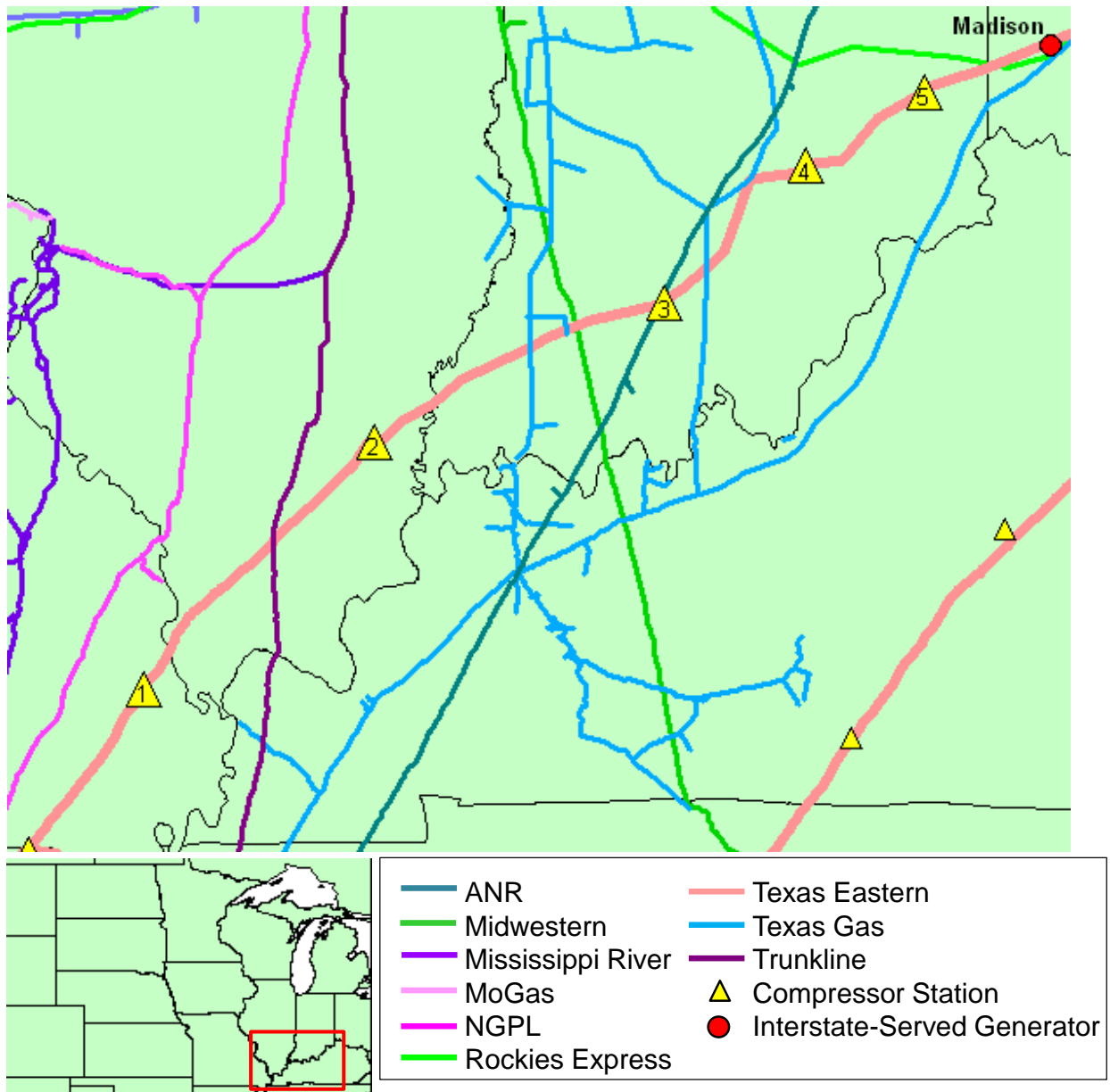


Figure A9-36. Texas Eastern Facilities in MISO North/Central

Table A9-51. MISO North/Central Generators Directly Connected to Texas Eastern

Generator	Capacity (MW)	Meter Name	Meter Number
Madison Station	704	Duke Energy Indiana	73233

Table A9-52. Texas Eastern Compressor Stations in MISO North/Central

ID	Name	Location
1	Oran	Oran, MO
2	Norris City	Norris City, IL
3	French Lick	French Lick, IN
4	Seymour	Seymour, IN
5	Batesville	Batesville, IN

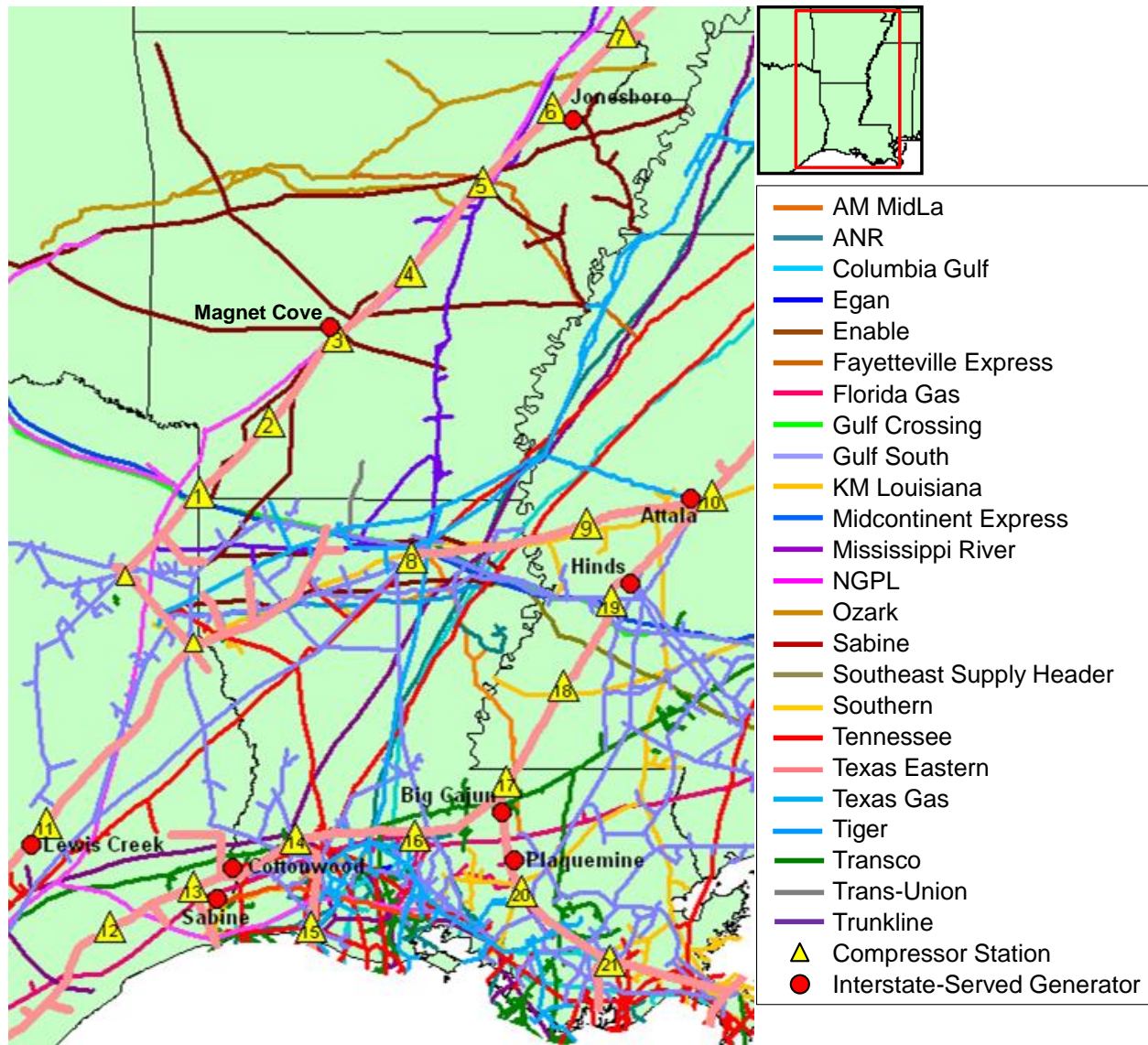


Figure A9-37. Texas Eastern Facilities in MISO South

Table A9-53. MISO South Generators Directly Connected to Texas Eastern

Generator	Capacity (MW)	Meter Name	Meter Number
Attala	455	Attala Generating Company LLC (Del)	73251
Big Cajun 1	486	NRG – Big Cajun Electric, Coupee Psh., LA	72857
City Water Light - Jonesboro	169	Jonesboro City, Water & Light – Greene, AR	73226
Cottonwood	1,327	Cottonwood Energy Company, LP - Newton Co., TX	73298
Hinds	449	Hinds Power Plant	73252
Lewis Creek	460	Entergy - Lewis Creek / Montgomery County, TX	73249
Magnet Cove	620	Hot Spring Power Plant, Hot Spring Co, AR	73667
Plaquemine	38	High Point Gas Gathering, L.P.-Iberville Parish, LA	73255
Sabine	1,809	Sabine Gas Trans. – Orange Co., TX	72395

Table A9-54. Texas Eastern Compressor Stations in MISO South

ID	Name	Location
1	Atlanta	Atlanta, TX
2	Hope	Emmet, AR
3	Donaldson	Malvern, AR
4	Little Rock	Little Rock, AR
5	Bald Knob	Bald Knob, AR
6	Walnut Ridge	Walnut Ridge, AR
7	Fagus	Fagus, MO
8	West Monroe	West Monroe, LA
9	Yazoo City	Yazoo, MS
10	Kosciusko	Kosciusko, MS
11	Huntsville	New Waverly, TX
12	Mont Belvieu	Cove, TX
13	Vidor	Vidor, TX
14	Gillis	Ragley, LA
15	Grand Chenier	Creole, LA
16	Opelousas	Opelousas, LA
17	St. Francisville	St. Francisville, LA
18	Union Church	Union Church, MS
19	Clinton	Jackson, MS
20	White Castle	White Castle, LA
21	La Rose	La Rose, LA

Texas Gas (Boardwalk Pipeline Partners)

Capacity: 4,592 MDth/d

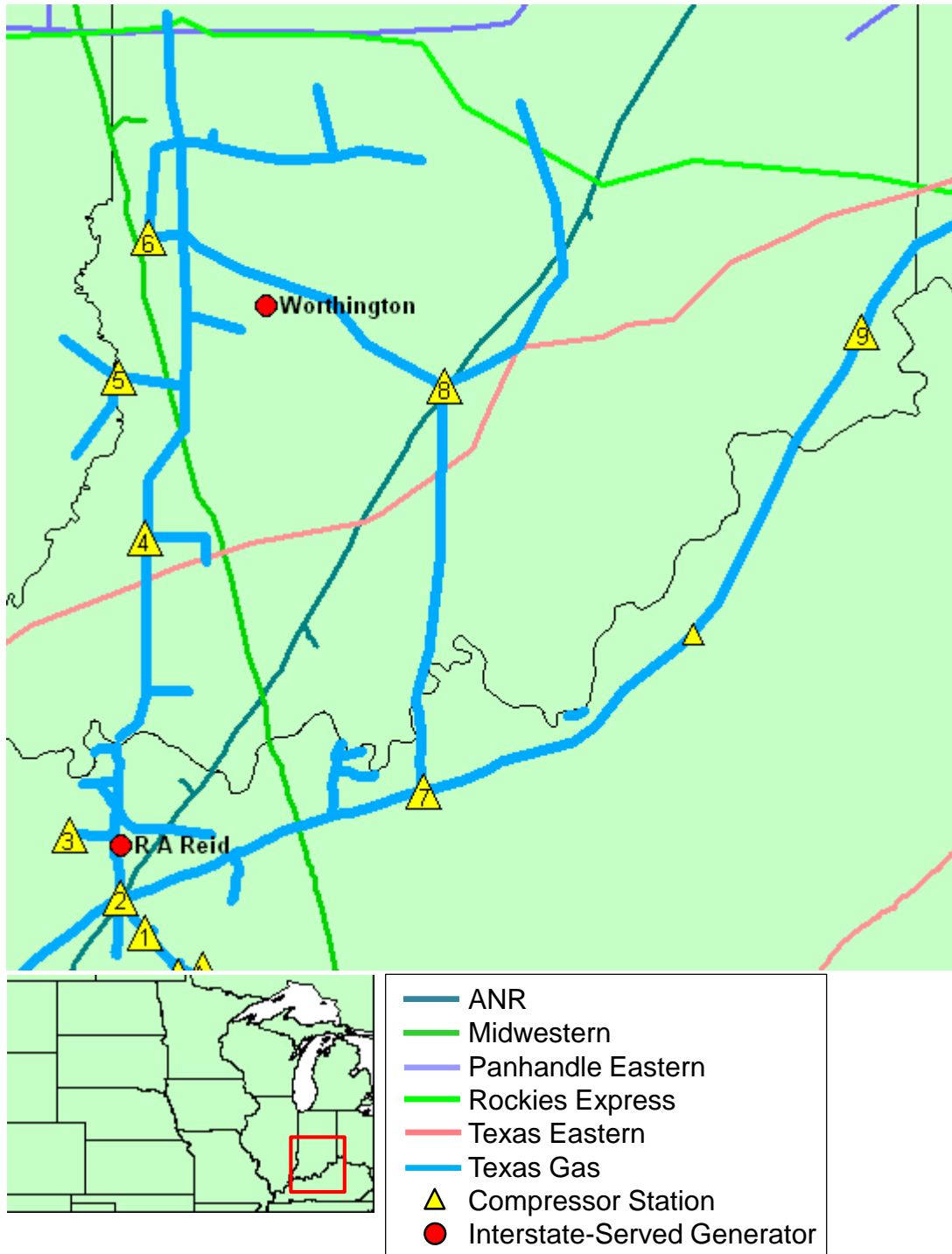


Figure A9-38. Texas Gas Facilities in MISO North/Central

Table A9-55. MISO North/Central Generators Directly Connected to Texas Gas

Generator	Capacity (MW)	Meter Name	Meter Number
R A Reid	60	Big Rivers-Reid	9465
Worthington	172	Worthington Generation	9599

Table A9-56. Texas Gas Compressor Stations in MISO North/Central

ID	Name	Location
1	Hanson	Hanson, KY
2	Slaughters	Slaughters, KY
3	Dixie	Henderson County, KY
4	Petersburg	Hazleton, IN
5	Oaktown	Oaktown, IN
6	Wilfred	Shelburn, IN
7	Hardinsburg	Hardinsburg, KY
8	Leesville	Bedford, IN
9	Dillsboro	Aurora, IN

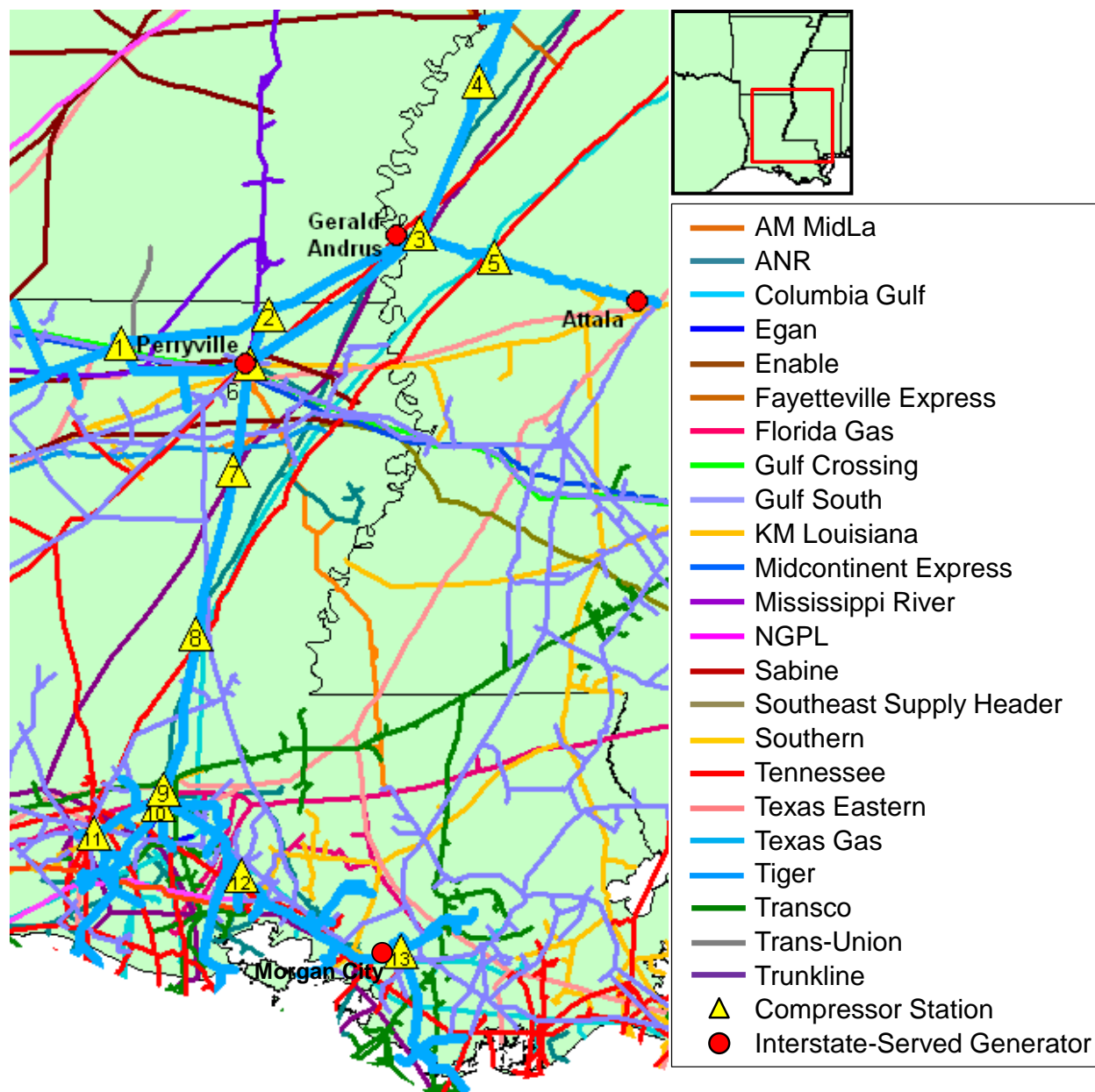


Figure A9-39. Texas Gas Facilities in MISO South

Table A9-57. MISO South Generators Directly Connected to Texas Gas

Generator	Capacity (MW)	Meter Name	Meter Number
Attala	455	Entergy-Attala	9110
Gerald Andrus	640	Entergy-Andrus Plant	9882
Morgan City	51	Morgan City Power Plant	1565
Perryville	691	Perryville Energy-CLECO	9587

Table A9-58. Texas Gas Compressor Stations in MISO South

ID	Name	Location
1	Sharon	Dubach, LA
2	Bastrop	Bastrop, LA
3	Greenville	Greenville, MS
4	Clarksdale	Clarksdale, MS
5	Isola	Isola, MS
6	Guthrie	Sterlington, LA
7	Columbia	Columbia, LA
8	Pineville	Pineville, LA
9	Mamou	Mamou, LA
10	Eunice	Eunice, LA
11	Woodlawn	Iowa, LA
12	Youngsville	Youngsville, LA
13	Morgan City	Amelia, LA

Tiger Pipeline (Energy Transfer Partners)

Capacity: 2,400 MDth/d

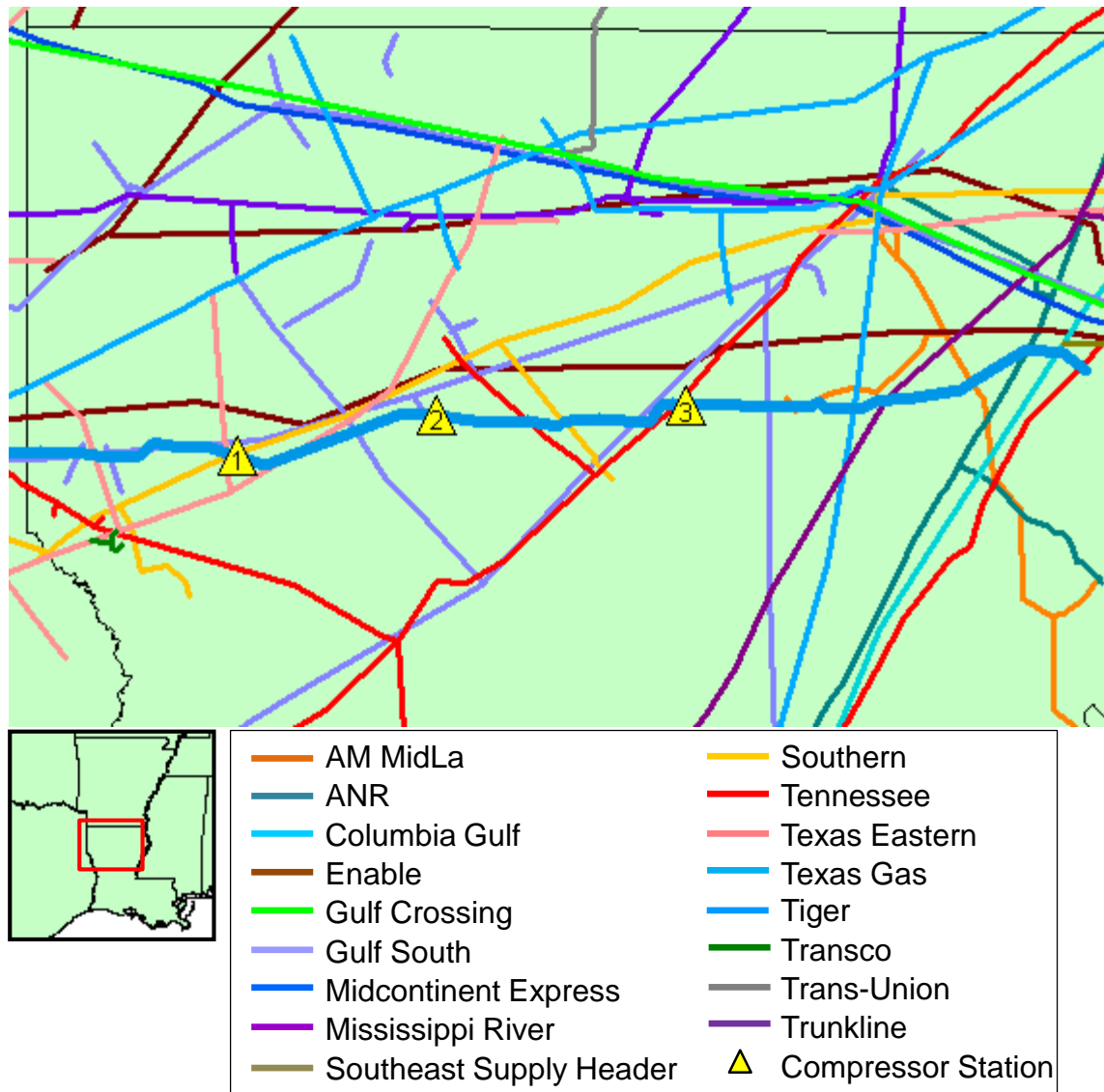


Figure A9-40. Tiger Facilities in MISO South

Table A9-59. Tiger Compressor Stations in MISO South

ID	Name	Location
1	Cannisnia	Soushatta, LA
2	Bienville	Lucky, LA
3	Chatham	Chatham, LA

Trans-Union (Entegra Power Group)

Capacity: 440 MDth/d¹⁰

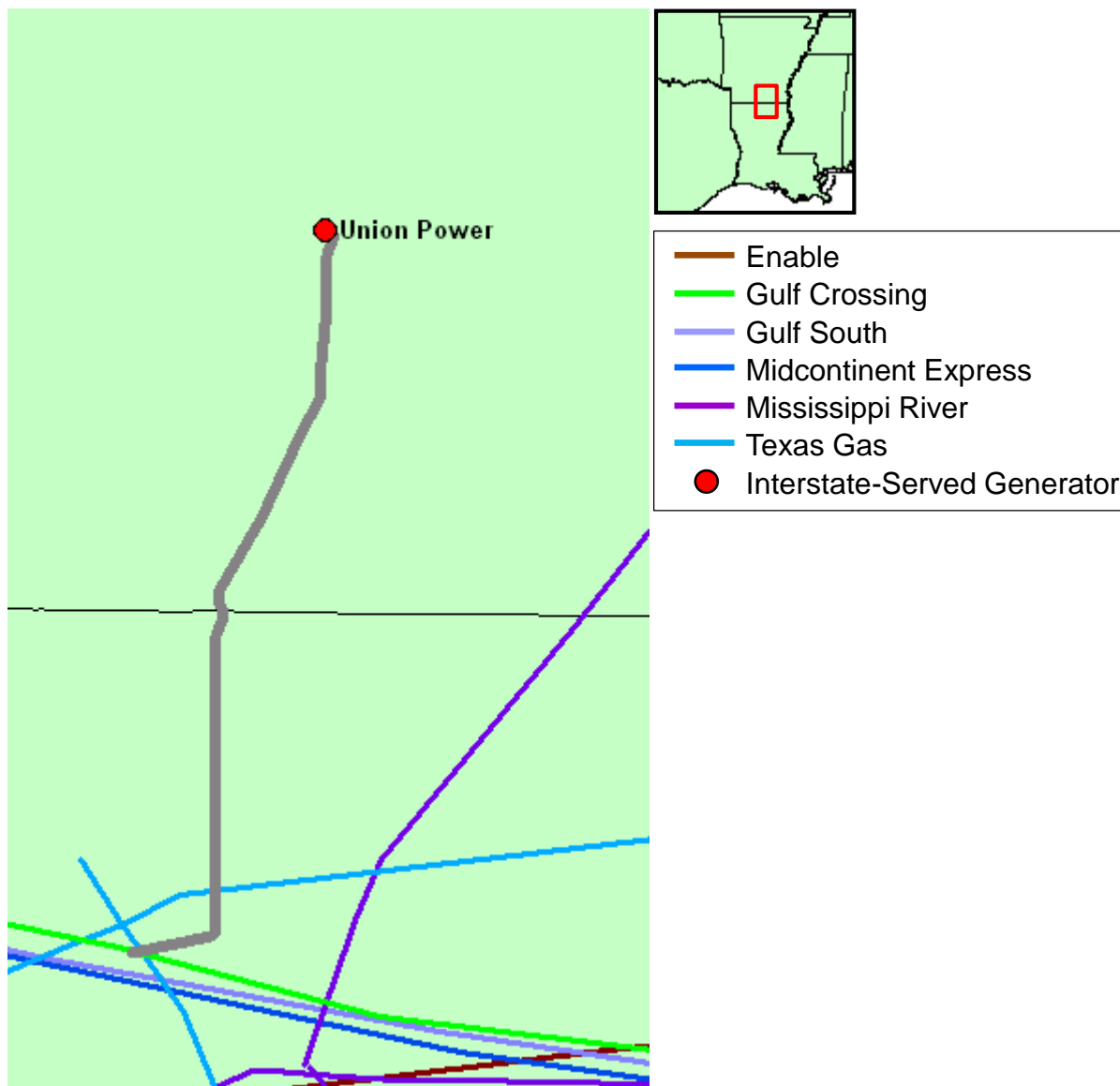


Figure A9-41. Trans-Union Facilities in MISO South

Table A9-60. MISO South Generators Directly Connected to Trans-Union

Generator	Capacity (MW)	Meter Name	Meter Number
Union Power Partners	1,365	Union Power	UnionPower

¹⁰ Source: <http://entegrapower.com/TRANSUNION.htm>

Transcontinental Pipeline (Williams)

Capacity: 750 MDth/d (Station 40), 2,505 MDth/d (Station 50)

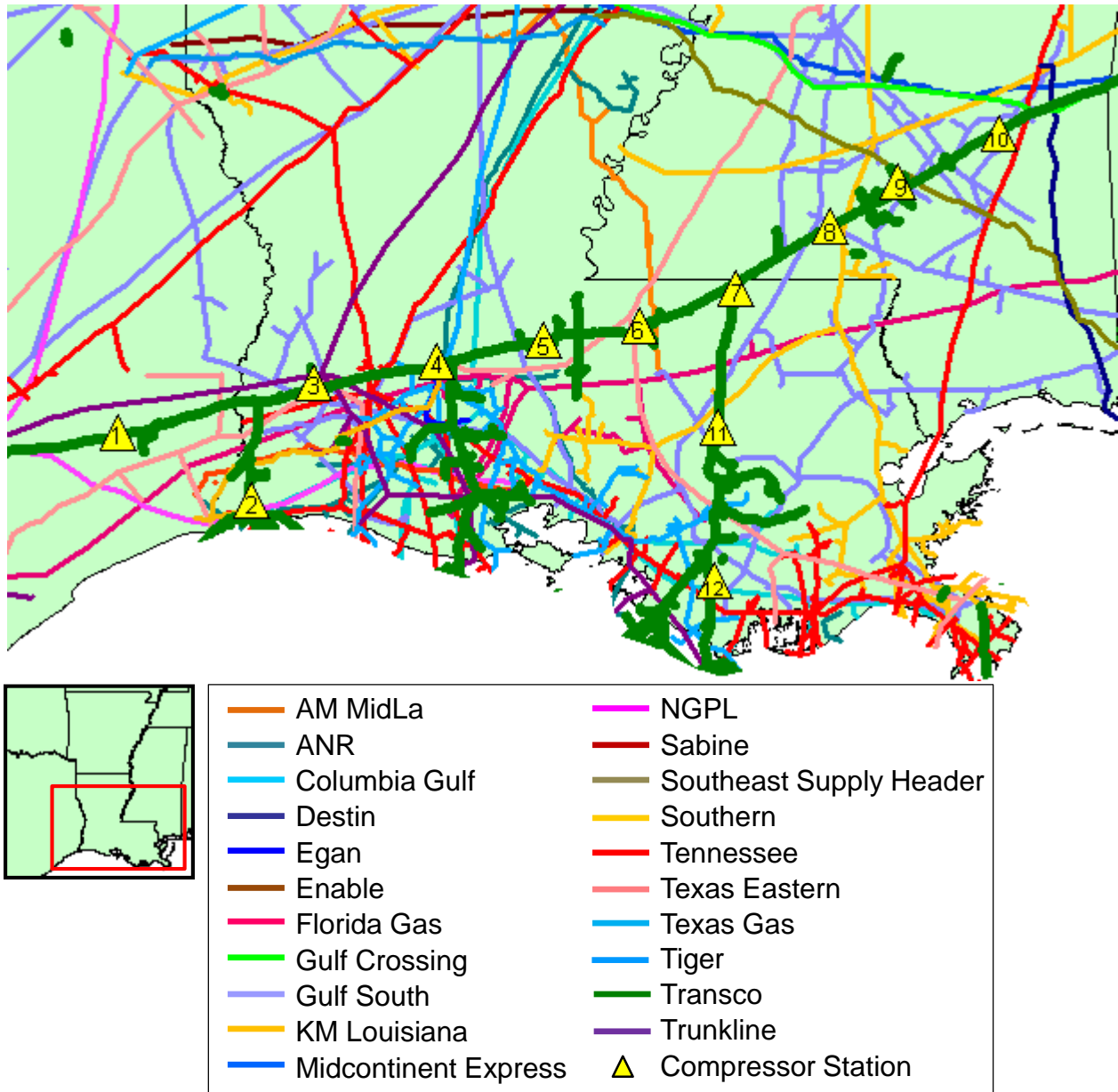


Figure A9-42. Transco Facilities in MISO South

Table A9-61. Transco Compressor Stations in MISO South

ID	Name	Location
1	Station 40	Sour Lake, TX
2	Station 44	Johnsons Bayou, LA
3	Station 45	Ragley, LA
4	Station 50	Eunice, LA
5	Station 54	Washington, LA
6	Station 60	Jackson, LA
7	Station 65	Greensburg, LA
8	Station 70	Tylertown, MS
9	Station 77	Seminary, MS
10	Station 80	Heidelberg, MS
11	Station 63	Convent, LA
12	Station 62	Gibson, LA

Trunkline Gas (Energy Transfer Partners)

Capacity: 1,680 MDth/d

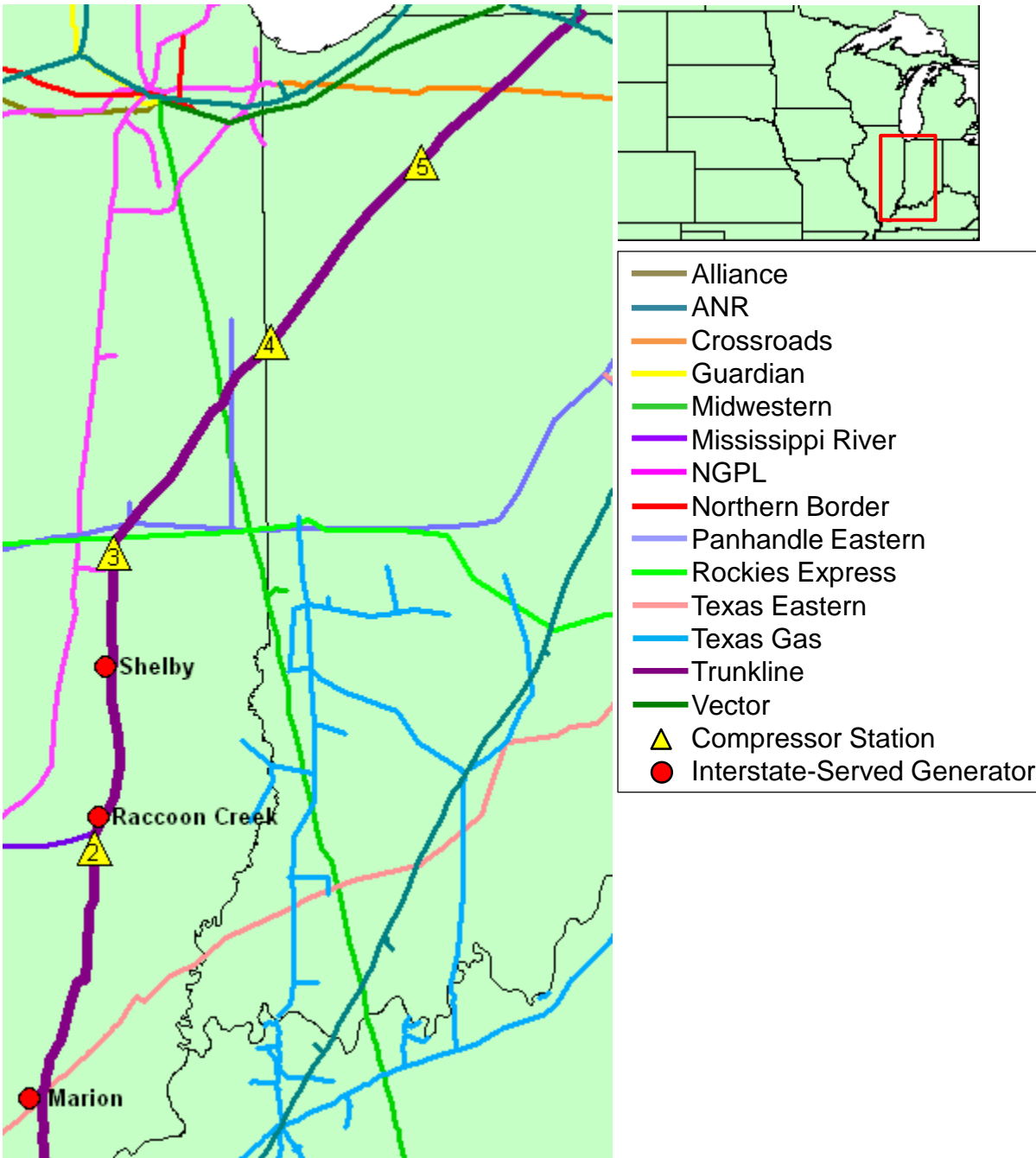


Figure A9-43. Trunkline Facilities in MISO North/Central

Table A9-62. MISO North/Central Generators Directly Connected to Trunkline

Generator	Capacity (MW)	Meter Name	Meter Number
Marion	176	Marion Generating Station - SIPC	82055
Raccoon Creek	368	Raccoon Creek - Union Electric DbA Ameren Missouri	82058
Reliant Shelby	360	Shelby - NRG Power Marketing	82050

Table A9-63. Trunkline Compressor Stations in MISO North/Central

ID	Name	Location
1	Joppa	Joppa, IL
2	Johnsonville	Johnsonville, IL
3	Tuscola	Tuscola, IL
4	Ambia	Ambia, IN
5	North Judson	Knox, IN



AM MidLa	Sabine
ANR	Southeast Supply Header
Columbia Gulf	Southern
Egan	Tennessee
Enable	Texas Eastern
Florida Gas	Texas Gas
Gulf Crossing	Tiger
Gulf South	Transco
KM Louisiana	Trans-Union
Midcontinent Express	Trunkline
Mississippi River	Compressor Station
NGPL	Interstate-Served Generator

Figure A9-44. Trunkline Facilities in MISO South

Table A9-64. MISO South Generators Directly Connected to Trunkline

Generator	Capacity (MW)	Meter Name	Meter Number
Batesville	837	South Mississippi Electric Power Association	82049

Table A9-65. Trunkline Compressor Stations in MISO South

ID	Name	Location
1	Kountze	Kountze, TX
2	Longville	Longville, LA
3	Kaplan	Abbeville, LA
4	Centerville	Centerville, LA
5	Patterson	Patterson, LA
6	Pollock	Pollock, LA
7	Epps	Epps, LA
8	Shaw	Shaw, MS

Vector Pipeline (Enbridge / DTE Energy)

Capacity: 1,276 MDth/d

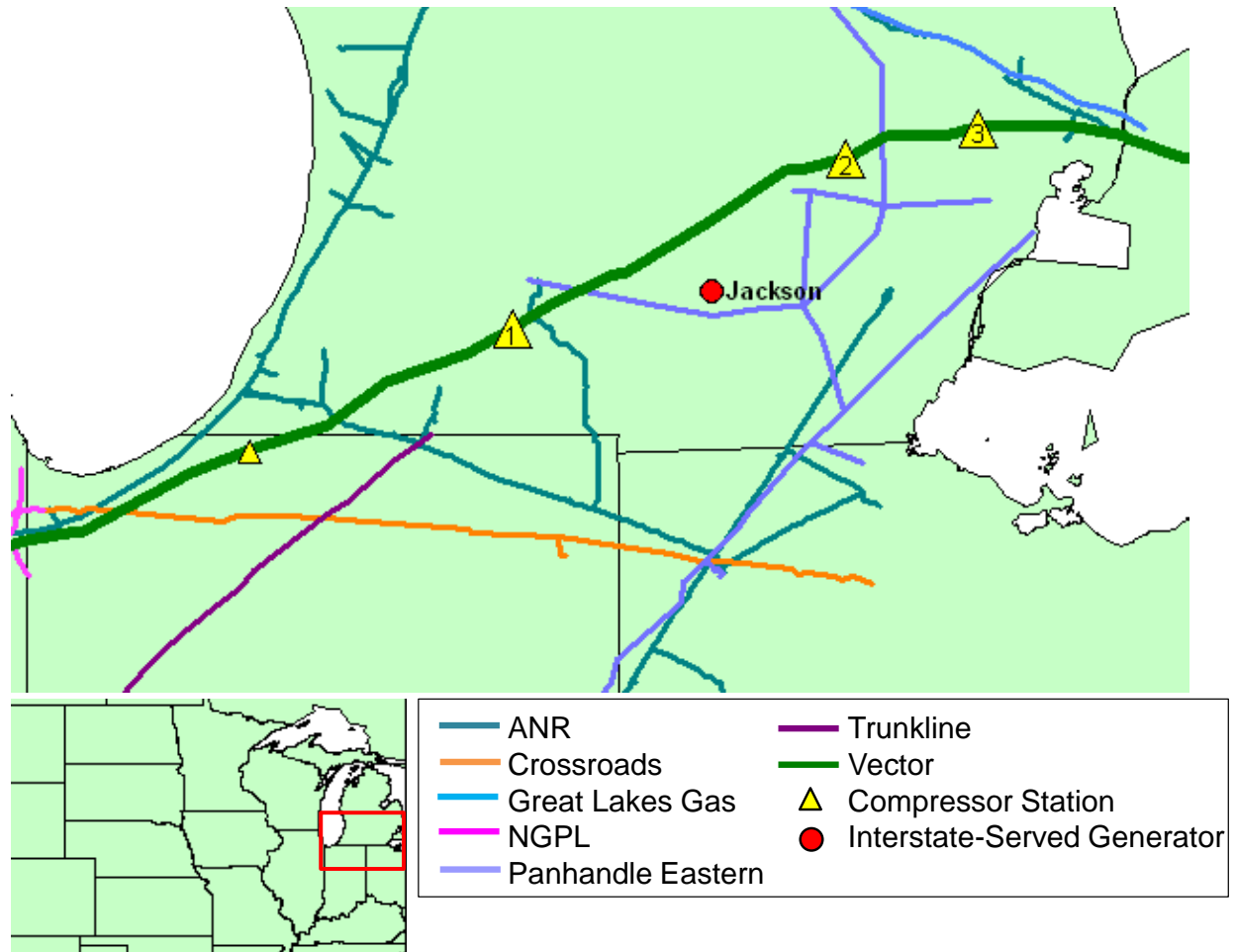


Figure A9-45. Vector Facilities in MISO North/Central

Table A9-66. MISO North/Central Generators Directly Connected to Vector

Generator	Capacity (MW)	Meter Name	Meter Number
Kinder Morgan Power Jackson	560	Jackson	316082

Table A9-67. Vector Compressor Stations in MISO North/Central

ID	Name	Location
1	Athens	Athens, MI
2	Highland	Highland, MI
3	Washington	Washington, MI

Viking Gas Transmission (ONEOK)

Capacity: 543 MMcf/d

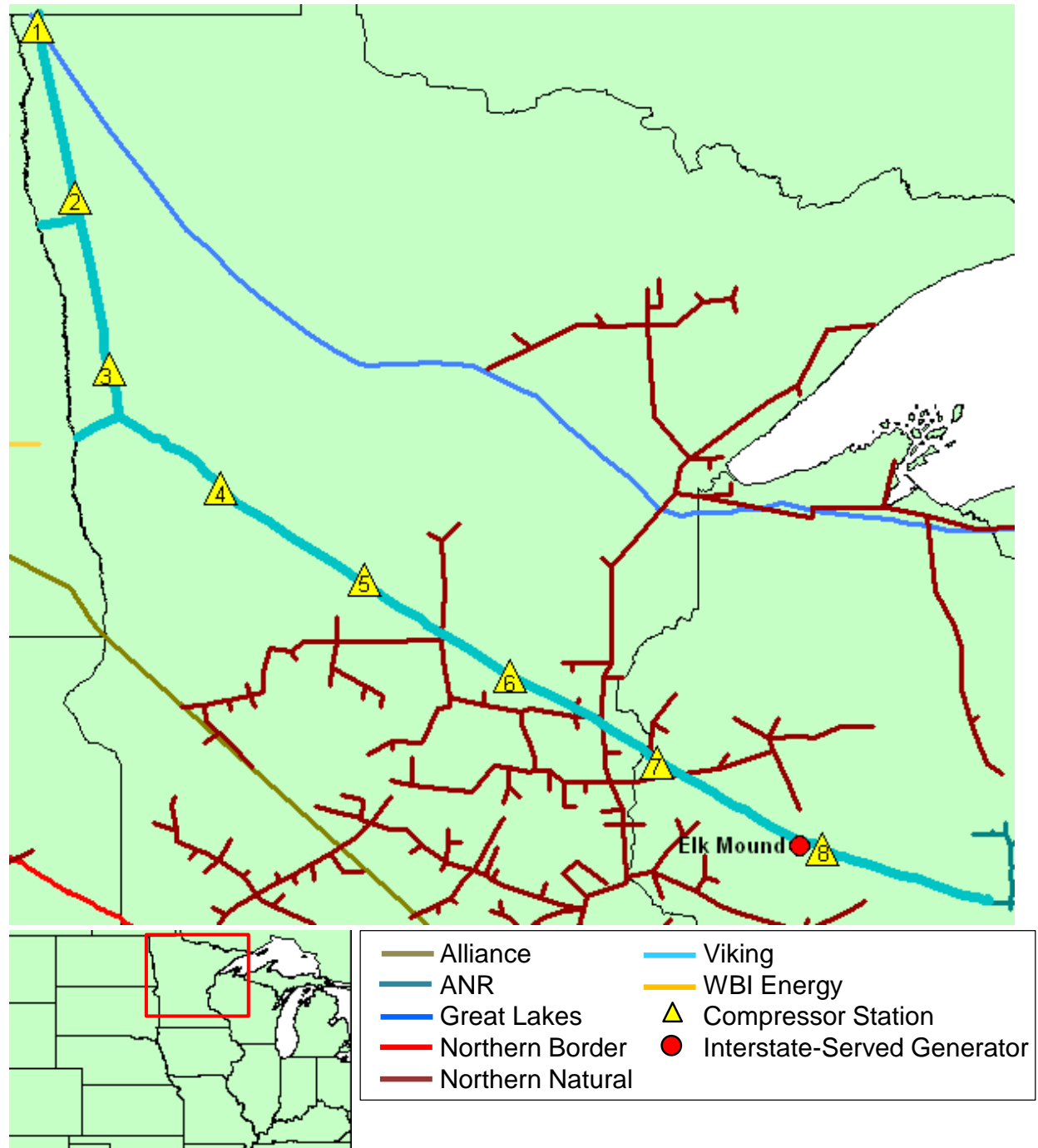


Figure A9-46. Viking Facilities in MISO North/Central

Table A9-68. MISO North/Central Generators Directly Connected to Viking

Generator	Capacity (MW)	Meter Name	Meter Number
Elk Mound	70	Dairyland	288046

Table A9-69. Viking Compressor Stations in MISO North/Central

ID	Name	Location
1	Humboldt	Humboldt, MN
2	Angus	Angus, MN
3	Ada	Ada, MN
4	Frazee	Frazee, MN
5	Cushing	Cushing, MN
6	Milaca	Milaca, MN
7	Osceola	Osceola, WI
8	Chippewa Falls	Chippewa Falls, WI

WBI Energy (MDU Resources Group)

Capacity: 728 MDth/d

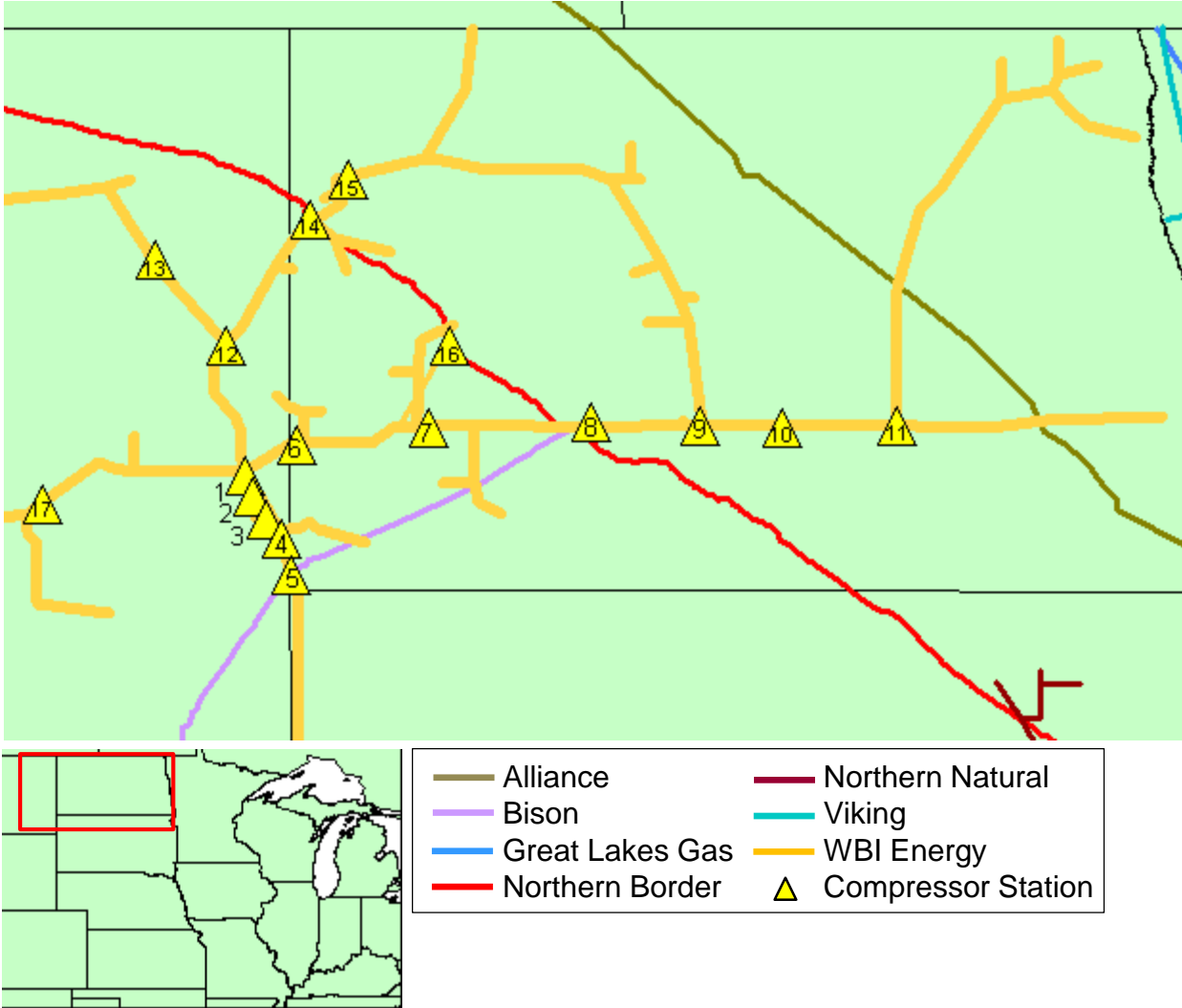


Figure A9-47. WBI Energy Facilities in MISO North/Central

Table A9-70. WBI Energy Compressor Stations in MISO North/Central

ID	Name	Location
1	Cabin Creek	Baker, MT
2	Monarch	Baker, MT
3	Sandstone	Baker, MT
4	Baker	Baker, MT
5	Little Beaver	Baker, MT
6	Golva	Golva, ND
7	Dickinson	Dickinson, ND
8	Glen Ullin	Glen Ullin, ND
9	Bismarck	Bismarck, ND
10	Steele	Steele, ND
11	Cleveland	Cleveland, ND
12	Morgan Creek	Glendive, MT
13	Vida	Vida, MT
14	Charbonneau	Alexander, ND
15	Williston	Williston, ND
16	Manning	Manning, ND
17	Hathaway	Miles City, MT

Acadian Gas Pipeline System (Enterprise Products Partners)

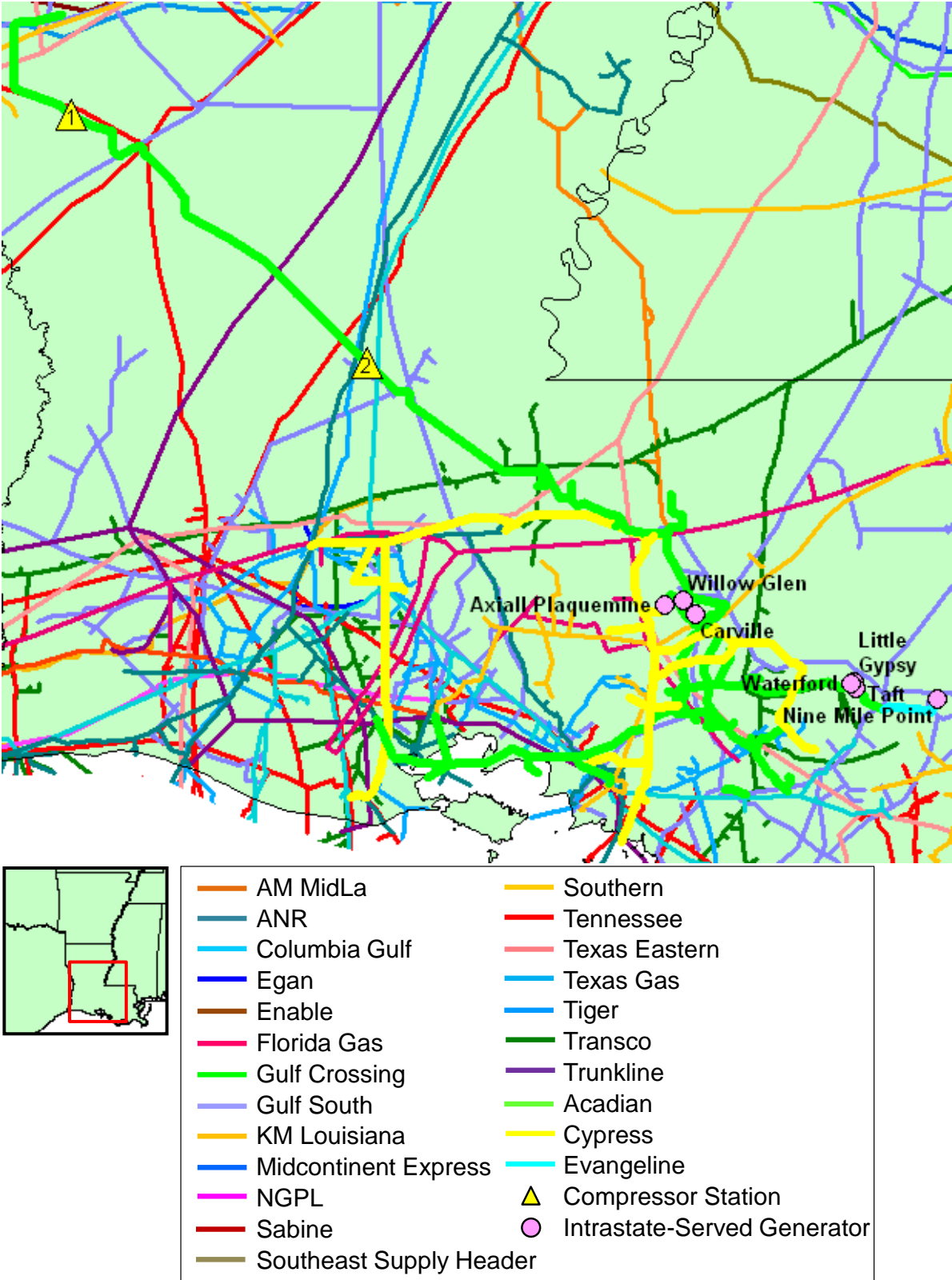


Figure A9-48. Acadian Gas Pipelines

Table A9-71. MISO South Generators Served by Acadian Gas Pipelines

System	Generator	Capacity (MW)	Meter	Meter Number
Acadian	Carville Energy	485	Carville Energy - Carville	A3211
Acadian	Taft Cogeneration	866	Occidental Chemical - Taft	A3215
Acadian	Willow Glen	650	Entergy - Willowglen	A3044
Cypress	Axiall Plaquemine	360	Georgia Gulf - Plaquemine	C167
Evangeline	Little Gypsy	1168	Entergy - Little Gypsy	A3209
Evangeline	Nine Mile Point	1564	Entergy - Ninemile	A3210
Evangeline	Waterford 1 & 2	822	Entergy - Waterford	A3208

Table A9-72. Acadian Gas Pipeline Compressor Stations

ID	Name	Location
1	Mansfield	Pleasant Hill, LA
2	Cheneyville	Cheneyville, LA

Energy Transfer Vantex System

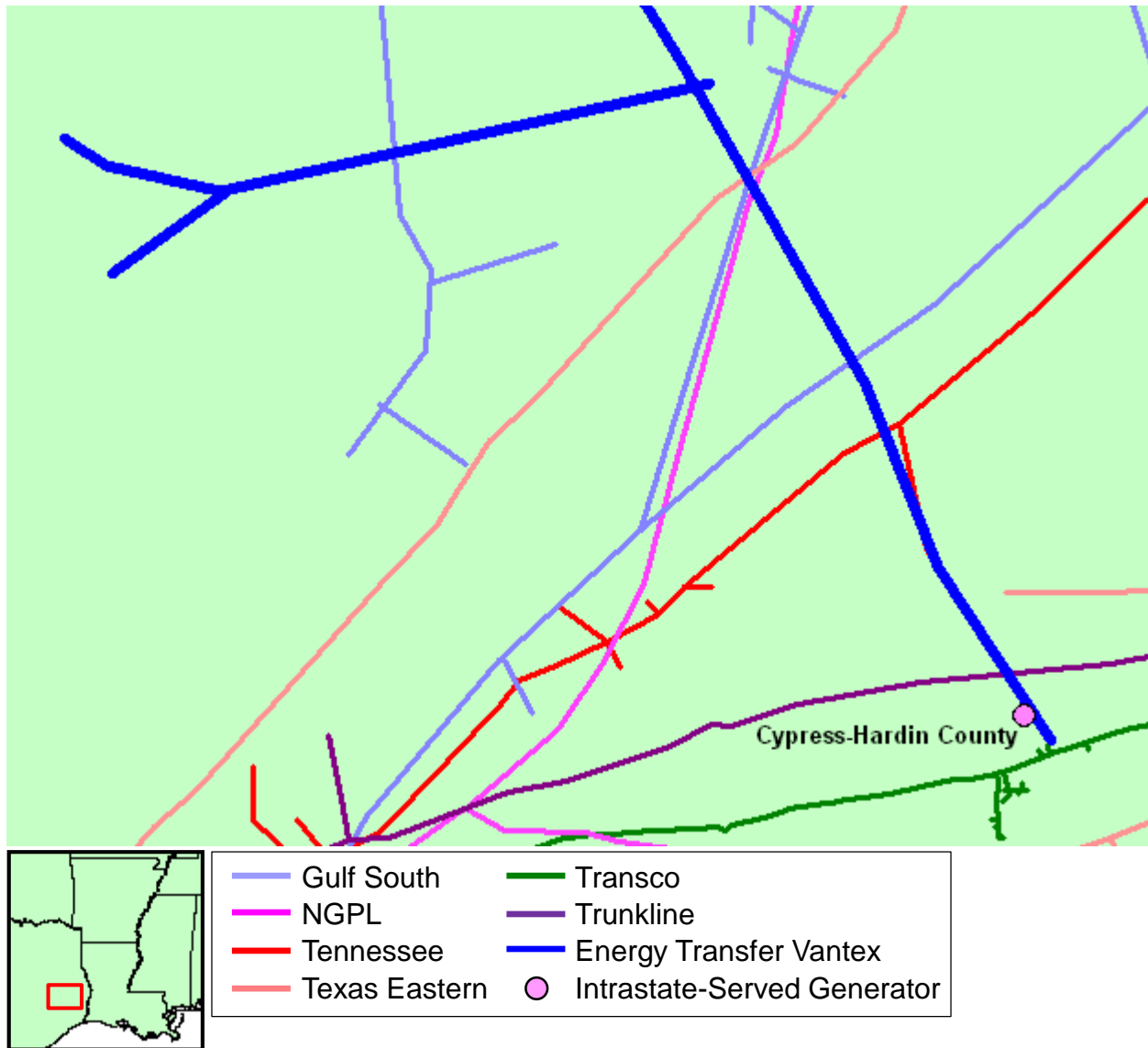


Figure A9-49. Energy Transfer Vantex Facilities

Table A9-73. MISO South Generators Served by Energy Transfer Vantex Facilities

Generator	Capacity (MW)
Cypress-Hardin County Peaking	150

Enlink LIG System (Enline Midstream)¹¹

Capacity: 2,000 MMcf/d¹²

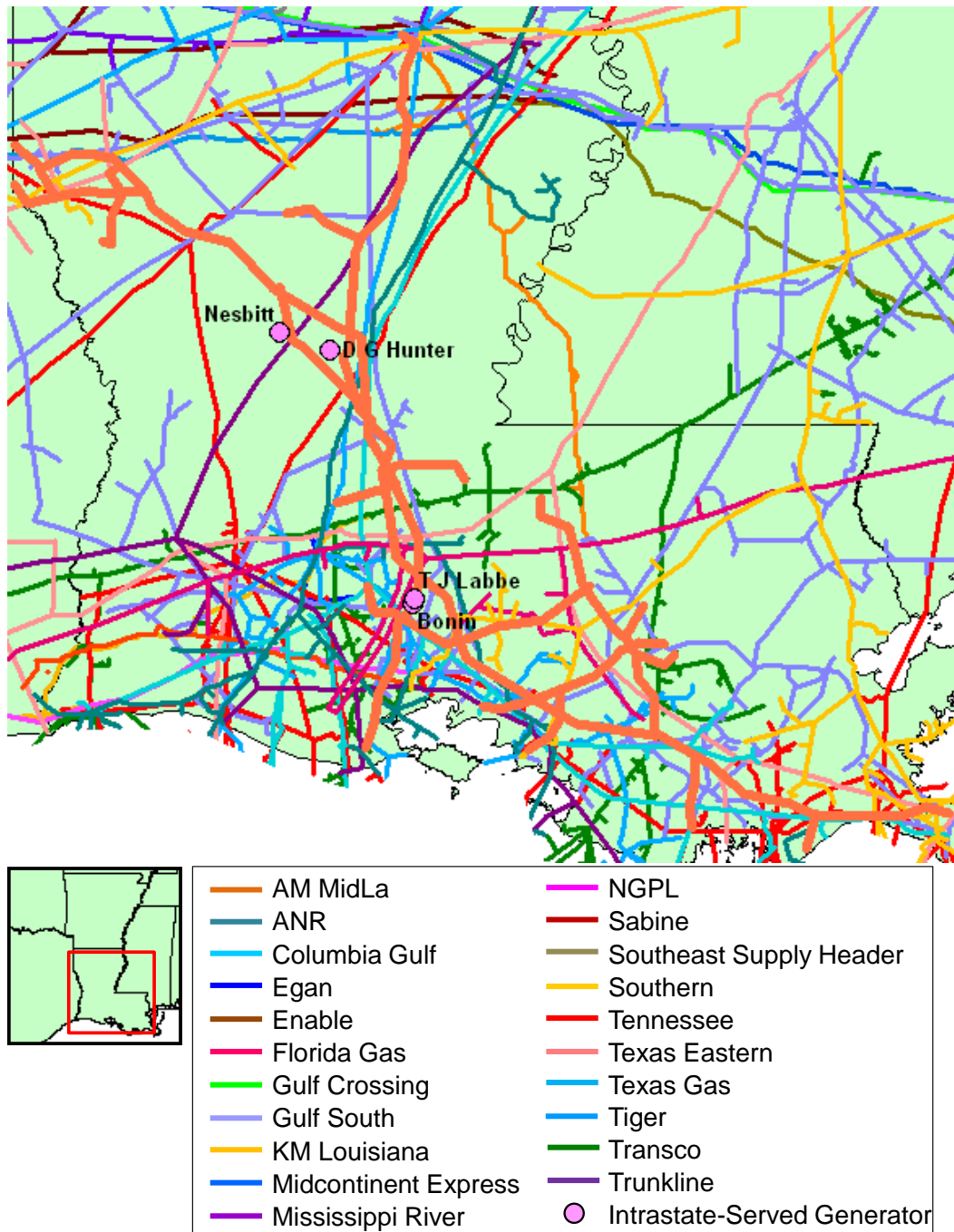


Figure A9-50. Enlink LIG Facilities

¹¹ Enline Midstream was formed by the merger of Crosstex Energy and Devon Energy in March 2014.

¹² Source: http://www.sec.gov/Archives/edgar/data/1179060/000110465914017996/a14-7653_1ex99d1.htm

Table A9-74. MISO South Generators Served by Enlink LIG System

Generator	Capacity (MW)
Bonin	171
D G Hunter	130
Nesbitt	422
T J Labbe	96

Kinder Morgan Tejas

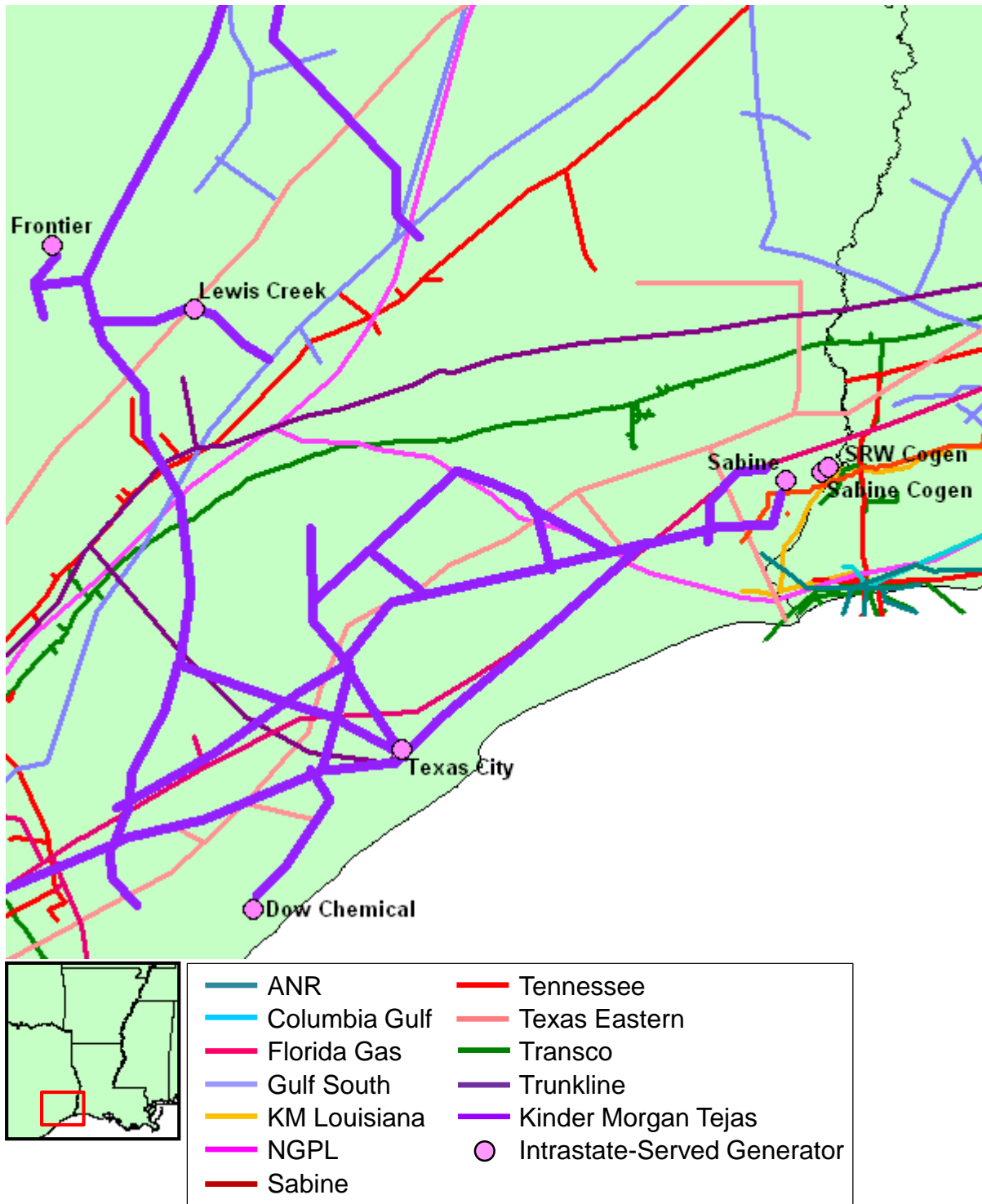


Figure A9-51. Kinder Morgan Tejas

Table A9-75. MISO South Generators Served by KM Tejas

Generator	Capacity (MW)
Dow Chemical Texas	900
Lewis Creek	460
Sabine	1,809
Sabine Cogen	56
San Jacinto County	150
SRW Cogeneration	490
Tenaska Frontier Generation	830
Union Carbide Texas City	75

Kinder Morgan Texas

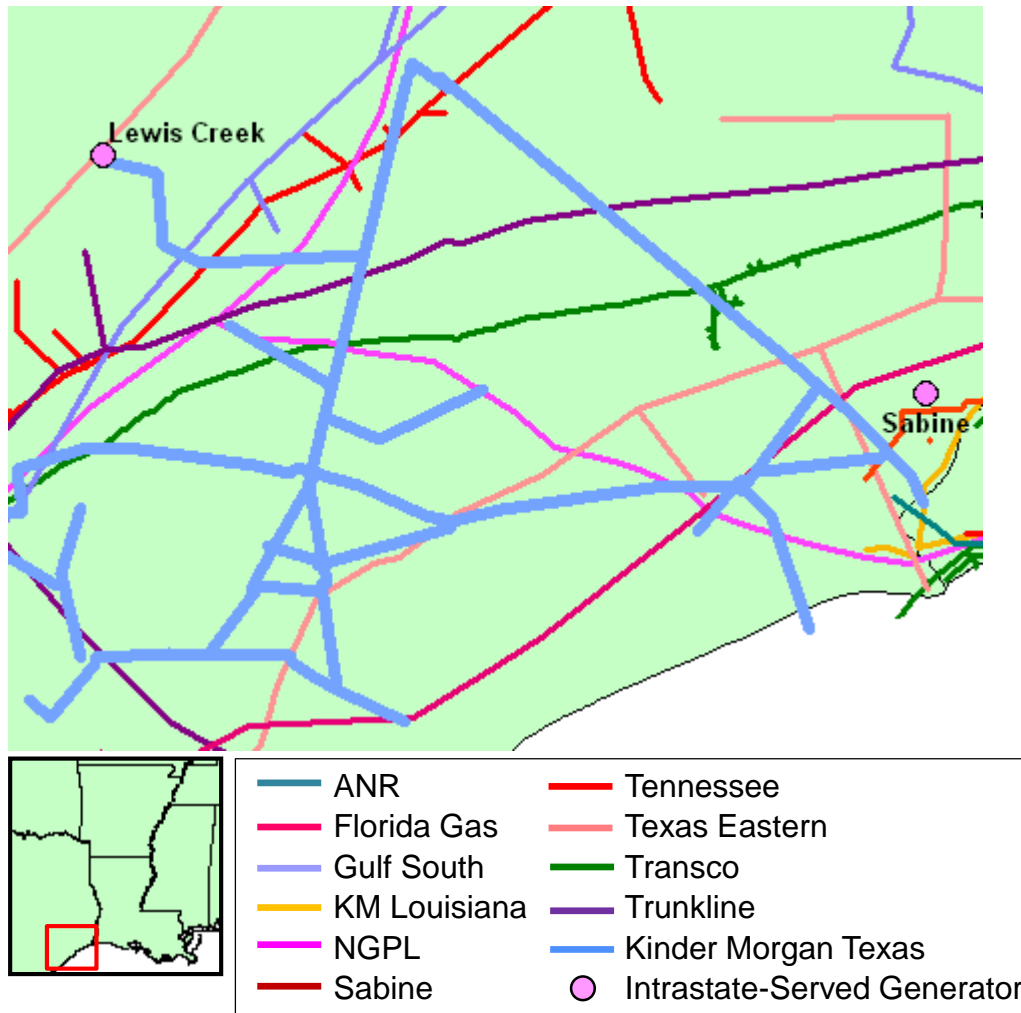


Figure A9-52. Kinder Morgan Texas

Table A9-76. MISO South Generators Served by KM Texas

Generator	Capacity (MW)
Lewis Creek	460
Sabine	1,809

Southcross Mississippi

Capacity: 354 MMcf/d¹³

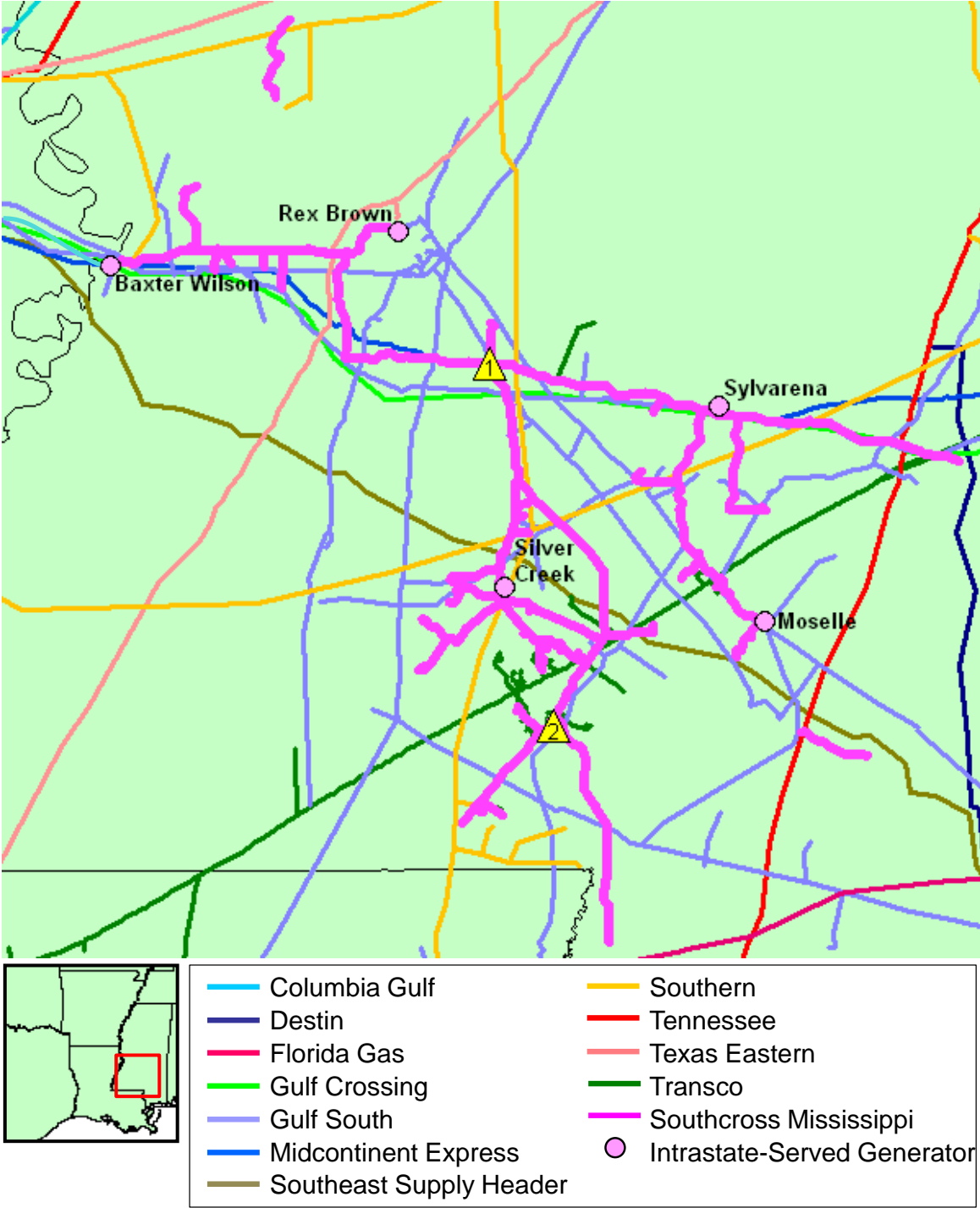


Figure A9-53. Southcross Mississippi Facilities

¹³ Source: <http://www.southcrossenergy.com/operations/mississippi/>

Table A9-77. MISO South Generators Served by Southcross Mississippi

Generator	Capacity (MW)
Baxter Wilson	1,167
Moselle	509
Rex Brown	233
Silver Creek	249
Sylvarena	135

Table A9-78. Southcross Mississippi Compressor Stations

ID	Name	Location
1	Piney Woods	Florence, MS
2	Baxterville	Columbia, MS

Alliant Energy

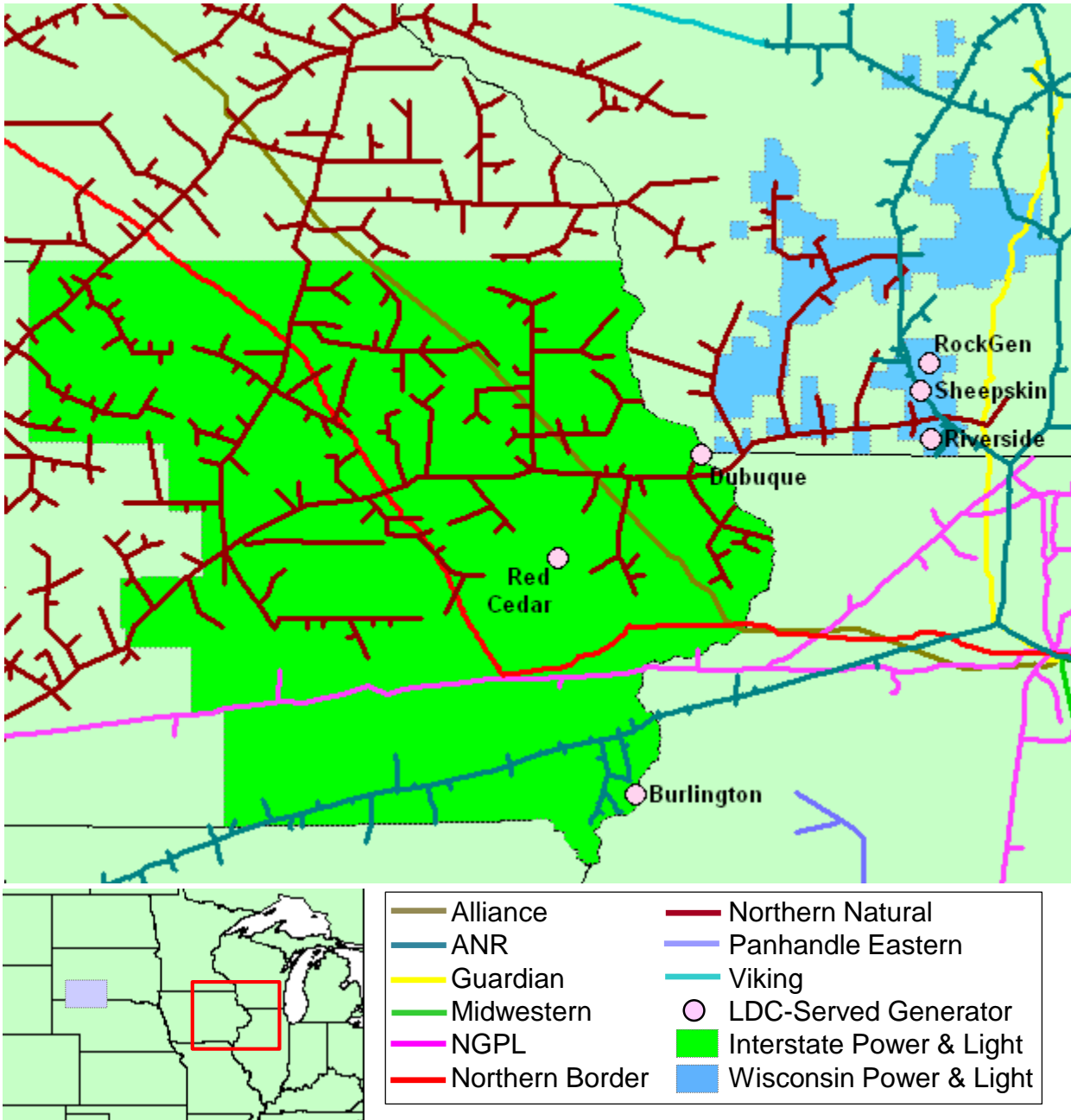


Figure A9-54. Alliant Energy Service Territory¹⁴

¹⁴ Interstate Power & Light also operates in southern Minnesota.

Table A9-79. MISO North/Central Generators Served by Alliant Energy

System	Generator	Capacity (MW)
Interstate P&L	Burlington	62
Interstate P&L	Dubuque	65
Interstate P&L	Emery Station	382
Interstate P&L	Red Cedar	27
Wisconsin P&L	Riverside Energy Center	542
Wisconsin P&L	Rock River	160
Wisconsin P&L	RockGen Energy Center	534
Wisconsin P&L	Sheepskin	40

Table A9-80. Interstate Power & Light Citygate Meters

System	Pipeline	Meter Name	Meter Number
Interstate P&L	ANR	IES Utilities-Grp 1	139241
Interstate P&L	NGPL	Int Pwr / NGPL Clinton Henry	11054
Interstate P&L	NGPL	IPLC / NGPL Washington Washington	68
Interstate P&L	NGPL	IPLC / NGPL CDP	25250
Interstate P&L	NGPL	IPLC / NGPL Muscatine#3 Muscatine	900057
Interstate P&L	NGPL	IPLC / NGPL Muscatine#1 Muscatine	900060
Interstate P&L	NGPL	IPLC / NGPL Muscatine#2 Muscatine	900061
Interstate P&L	NGPL	IPLC / NGPL Letts Muscatine	900062
Interstate P&L	NGPL	IPLC / NGPL Conesville Muscatine	900063
Interstate P&L	NGPL	IPLC / NGPL Colmbus Jct Muscatine	900064
Interstate P&L	NGPL	IPLC / NGPL Ainsworth Washington	900065
Interstate P&L	NGPL	IPLC / NGPL Kalona Washington	900069
Interstate P&L	NGPL	IPLC / NGPL W Chester Washington	900070
Interstate P&L	NGPL	IPLC / NGPL Keota Keokuk	900073
Interstate P&L	NGPL	IPLC / NGPL English Keokuk	900074
Interstate P&L	NGPL	IPLC / NGPL Sigourney Keokuk	900076
Interstate P&L	NGPL	IPLC / NGPL What Cheer Keokuk	900077
Interstate P&L	NGPL	IPLC / NGPL Pella Mahaska	900084
Interstate P&L	NGPL	IPLC / NGPL Knoxville Marion	900088
Interstate P&L	NGPL	IPLC / NGPL Chariton Warren	900091
Interstate P&L	NGPL	IPLC / NGPL Osceola Warren	900095
Interstate P&L	NGPL	IPLC / NGPL Truro Madison	900097
Interstate P&L	NGPL	IPLC / NGPL Creston Union	900102
Interstate P&L	NGPL	IPLC / NGPL Greenfield Adair	900104
Interstate P&L	NGPL	IPLC / NGPL Clarinda Montgomery	900109
Interstate P&L	NGPL	IPLC / NGPL CDP Clinton	901028
Interstate P&L	Northern Border	Yale	378215
Interstate P&L	Northern Border	Prophetstown	227979
Interstate P&L	Northern Natural	Zone ABC- Interstate Power And Lig	N/A
Interstate P&L	Northern Natural	IA Zone D-Interstate Power And Ligh	N/A

System	Pipeline	Meter Name	Meter Number
Interstate P&L	Northern Natural	Albert City IA #1	3652
Interstate P&L	Northern Natural	Albion IA #1	55732
Interstate P&L	Northern Natural	Alden IA #1	3620
Interstate P&L	Northern Natural	Alexander IA #1	3621
Interstate P&L	Northern Natural	Alta IA #1	3574
Interstate P&L	Northern Natural	Ames IA NADC Lab	78639
Interstate P&L	Northern Natural	Ames IA #1	2884
Interstate P&L	Northern Natural	Ames IA #1A	3575
Interstate P&L	Northern Natural	Ames IA #1B	52882
Interstate P&L	Northern Natural	Ashton IA #1	3583
Interstate P&L	Northern Natural	Atlantic IA #1	2885
Interstate P&L	Northern Natural	Atlantic IA #2	3577
Interstate P&L	Northern Natural	Atlantic IA #3	78013
Interstate P&L	Northern Natural	Barilla Pasta TBS	71445
Interstate P&L	Northern Natural	Belle Plaine IA #1	3622
Interstate P&L	Northern Natural	Belmond IA #1	3578
Interstate P&L	Northern Natural	Boone IA #1	2871
Interstate P&L	Northern Natural	Brandon Iowa IA #1	57831
Interstate P&L	Northern Natural	Britt IA #1	2877
Interstate P&L	Northern Natural	Cambridge IA #1	3624
Interstate P&L	Northern Natural	Carroll IA #1	2872
Interstate P&L	Northern Natural	Casey IA #1	56180
Interstate P&L	Northern Natural	Central City IA #1	3625
Interstate P&L	Northern Natural	Chelsea IA #1	3627
Interstate P&L	Northern Natural	Cherokee IA #1	2870
Interstate P&L	Northern Natural	Cherokee IA #2	3579
Interstate P&L	Northern Natural	Cherokee IA #3	3580
Interstate P&L	Northern Natural	Clarence IA #1	3623
Interstate P&L	Northern Natural	Coggon IA #1	3630
Interstate P&L	Northern Natural	Collins/Maxwell IA #1	57836
Interstate P&L	Northern Natural	Colo IA #1	3582
Interstate P&L	Northern Natural	Conrad IA #1	3595
Interstate P&L	Northern Natural	Corwith IA #1	3626
Interstate P&L	Northern Natural	Coulter IA #1	3617
Interstate P&L	Northern Natural	De Witt IA #1	3628
Interstate P&L	Northern Natural	Dekalb IA	78297
Interstate P&L	Northern Natural	Delmar IA #1	3632
Interstate P&L	Northern Natural	Dysart IA #1	3584
Interstate P&L	Northern Natural	Dysart IA #2	3585
Interstate P&L	Northern Natural	Eldora IA #1	2878
Interstate P&L	Northern Natural	Ellsworth IA #1	3629
Interstate P&L	Northern Natural	Garner IA #1	2886
Interstate P&L	Northern Natural	Garrison IA #1	3590

System	Pipeline	Meter Name	Meter Number
Interstate P&L	Northern Natural	Garwin IA #1	3591
Interstate P&L	Northern Natural	George IA #1	3592
Interstate P&L	Northern Natural	Gilbert IA #1	3593
Interstate P&L	Northern Natural	Gladbrook IA #1	3594
Interstate P&L	Northern Natural	Goodell IA #1	3631
Interstate P&L	Northern Natural	Grand Mound IA #1	60232
Interstate P&L	Northern Natural	Grinnell IA #1	2867
Interstate P&L	Northern Natural	Hazelton IA #1	3596
Interstate P&L	Northern Natural	Holland IA #1	3597
Interstate P&L	Northern Natural	Hubbard IA #1	3598
Interstate P&L	Northern Natural	Huxley IA #1	3633
Interstate P&L	Northern Natural	Iowa Falls Ethanol	78445
Interstate P&L	Northern Natural	Iowa Falls IA #1	2876
Interstate P&L	Northern Natural	Jefferson IA #1	2873
Interstate P&L	Northern Natural	Jewell IA #1	3635
Interstate P&L	Northern Natural	Kanawha IA #1	3636
Interstate P&L	Northern Natural	Kensett IA #1	3210
Interstate P&L	Northern Natural	Laurens IA #1	3653
Interstate P&L	Northern Natural	Le Grand IA #1	3710
Interstate P&L	Northern Natural	Ledyard/Swea City IA	57580
Interstate P&L	Northern Natural	Linn Grove IA #1	3654
Interstate P&L	Northern Natural	Little Rock IA #1	59979
Interstate P&L	Northern Natural	Manly IA #1	3209
Interstate P&L	Northern Natural	Marathon IA #1	3655
Interstate P&L	Northern Natural	Marshalltown IA #1	2875
Interstate P&L	Northern Natural	Marshalltown IA #1A	3601
Interstate P&L	Northern Natural	Marshalltown IA #2	3602
Interstate P&L	Northern Natural	Mason City IA #1	3203
Interstate P&L	Northern Natural	Mason City IA #1A	3204
Interstate P&L	Northern Natural	Mason City IA #2	3205
Interstate P&L	Northern Natural	Maynard IA #1	3637
Interstate P&L	Northern Natural	Mechanicsville IA #1	3638
Interstate P&L	Northern Natural	Melbourne IA	55737
Interstate P&L	Northern Natural	Meservey IA #1	3639
Interstate P&L	Northern Natural	Mesquakie Casino TBS #1	62498
Interstate P&L	Northern Natural	Morley IA #1	3640
Interstate P&L	Northern Natural	Mount Vernon IA #1	2880
Interstate P&L	Northern Natural	Mt. Auburn IA	55738
Interstate P&L	Northern Natural	Nevada IA #1	2874
Interstate P&L	Northern Natural	New Providence IA #1	3618
Interstate P&L	Northern Natural	Newhall IA	55742
Interstate P&L	Northern Natural	Nora Springs IA #1	3206
Interstate P&L	Northern Natural	Northwood IA #1	3211

System	Pipeline	Meter Name	Meter Number
Interstate P&L	Northern Natural	Oelwein IA #1	2882
Interstate P&L	Northern Natural	Olin IA #1	3711
Interstate P&L	Northern Natural	Ottlie Seed TBS #1	57832
Interstate P&L	Northern Natural	Owasa IA #1	3605
Interstate P&L	Northern Natural	Peterson IA #1	3713
Interstate P&L	Northern Natural	Quasqueton IA #1	3712
Interstate P&L	Northern Natural	Radcliffe IA #1	3641
Interstate P&L	Northern Natural	Randall IA #1	3642
Interstate P&L	Northern Natural	Reinbeck IA #1	3604
Interstate P&L	Northern Natural	Rembrandt IA #1	3714
Interstate P&L	Northern Natural	Rock Creek/Sully/Lynnville IA #1	56335
Interstate P&L	Northern Natural	Roland IA #1	3643
Interstate P&L	Northern Natural	Rowley IA #1	55744
Interstate P&L	Northern Natural	Rudd IA #1	3207
Interstate P&L	Northern Natural	Ryan IA #1	3644
Interstate P&L	Northern Natural	Sheldahl IA #1	3645
Interstate P&L	Northern Natural	Sibley IA #1	3606
Interstate P&L	Northern Natural	Sioux City IA #1A	518
Interstate P&L	Northern Natural	Sioux Rapids IA #1	3634
Interstate P&L	Northern Natural	Springbrook IA	55746
Interstate P&L	Northern Natural	St. Anthony/Clemens IA #1	60233
Interstate P&L	Northern Natural	Stacyville IA	57395
Interstate P&L	Northern Natural	Stanley IA #1	3647
Interstate P&L	Northern Natural	Stanwood IA #1	3646
Interstate P&L	Northern Natural	State Center IA #1	3607
Interstate P&L	Northern Natural	Steamboat Rock IA #1	57830
Interstate P&L	Northern Natural	Storm Lake IA #1	2869
Interstate P&L	Northern Natural	Stratford IA #1	3648
Interstate P&L	Northern Natural	Tama IA #1	2887
Interstate P&L	Northern Natural	Tama IA #2	3608
Interstate P&L	Northern Natural	Thornton IA #1	3619
Interstate P&L	Northern Natural	Toledo IA #1	2879
Interstate P&L	Northern Natural	Traer IA #1	3609
Interstate P&L	Northern Natural	Union Grove Lake IA	55747
Interstate P&L	Northern Natural	Union IA #1	3649
Interstate P&L	Northern Natural	Ventura IA #1	3208
Interstate P&L	Northern Natural	Vinton IA #1	2881
Interstate P&L	Northern Natural	Wellsburg IA #1	3615
Interstate P&L	Northern Natural	Welton IA #1	3715
Interstate P&L	Northern Natural	Whitten IA #1	3650
Interstate P&L	Northern Natural	Winthrop IA #1	3651
Interstate P&L	Northern Natural	Zearing IA #1	56181
Wisconsin P&L	ANR	Wisc Power-Grp 1	139257

System	Pipeline	Meter Name	Meter Number
Wisconsin P&L	ANR	Wisc Power Grp 2	854822
Wisconsin P&L	Northern Natural	Zone D-Wisconsin P&L	N/A
Wisconsin P&L	Northern Natural	Argyle WI #1	4026
Wisconsin P&L	Northern Natural	Arlington WI #1	4028
Wisconsin P&L	Northern Natural	Baraboo WI #1	2921
Wisconsin P&L	Northern Natural	Baraboo WI #2	4029
Wisconsin P&L	Northern Natural	Benton WI #1	4023
Wisconsin P&L	Northern Natural	Blanchardville WI #1	4030
Wisconsin P&L	Northern Natural	Darlington WI #1	4031
Wisconsin P&L	Northern Natural	Dodgeville WI #1	4033
Wisconsin P&L	Northern Natural	Dodgeville WI #1A	59924
Wisconsin P&L	Northern Natural	Footville WI #1	4034
Wisconsin P&L	Northern Natural	Hazel Green WI #1	4025
Wisconsin P&L	Northern Natural	Hillsboro WI #1	4036
Wisconsin P&L	Northern Natural	Janesville Wis Power & Light(Beloit	N/A
Wisconsin P&L	Northern Natural	Jordon Township WI #1	62384
Wisconsin P&L	Northern Natural	Juda WP&L	18269
Wisconsin P&L	Northern Natural	La Valle WI #1	4037
Wisconsin P&L	Northern Natural	Lake Delton WI #1	2927
Wisconsin P&L	Northern Natural	Lake Delton WI #2	78998
Wisconsin P&L	Northern Natural	Marquis Energy	78552
Wisconsin P&L	Northern Natural	Mauston WI #1	4038
Wisconsin P&L	Northern Natural	Mineral Point WI #1	4039
Wisconsin P&L	Northern Natural	New Lisbon WI #1	4041
Wisconsin P&L	Northern Natural	North Freedom WI #1	4042
Wisconsin P&L	Northern Natural	Orfordville WI #1	4043
Wisconsin P&L	Northern Natural	Pardeeville WI #1	4044
Wisconsin P&L	Northern Natural	Plains #1	25067
Wisconsin P&L	Northern Natural	Platteville #2 WPL	18268
Wisconsin P&L	Northern Natural	Platteville WI #1	2926
Wisconsin P&L	Northern Natural	Portage WI #1	2922
Wisconsin P&L	Northern Natural	Portage WI #1A	25098
Wisconsin P&L	Northern Natural	Portage WI #1B	62857
Wisconsin P&L	Northern Natural	Poynette WI #1	4045
Wisconsin P&L	Northern Natural	Reedsburg WI #1	2923
Wisconsin P&L	Northern Natural	Rio WI #1	4046
Wisconsin P&L	Northern Natural	Rock Springs WI #1	4047
Wisconsin P&L	Northern Natural	Sauk City WI #1	2924
Wisconsin P&L	Northern Natural	Spring Green WI #1	4048
Wisconsin P&L	Northern Natural	Union Center WI #1	2925
Wisconsin P&L	Northern Natural	Wiota WI #1	60588
Wisconsin P&L	Northern Natural	Wisconsin Dells WI #1	4049
Wisconsin P&L	Northern Natural	Wonewoc WI #1	4050

July 2, 2015

System	Pipeline	Meter Name	Meter Number
Wisconsin P&L	Northern Natural	Wyocena WI #1	4051

Ameren

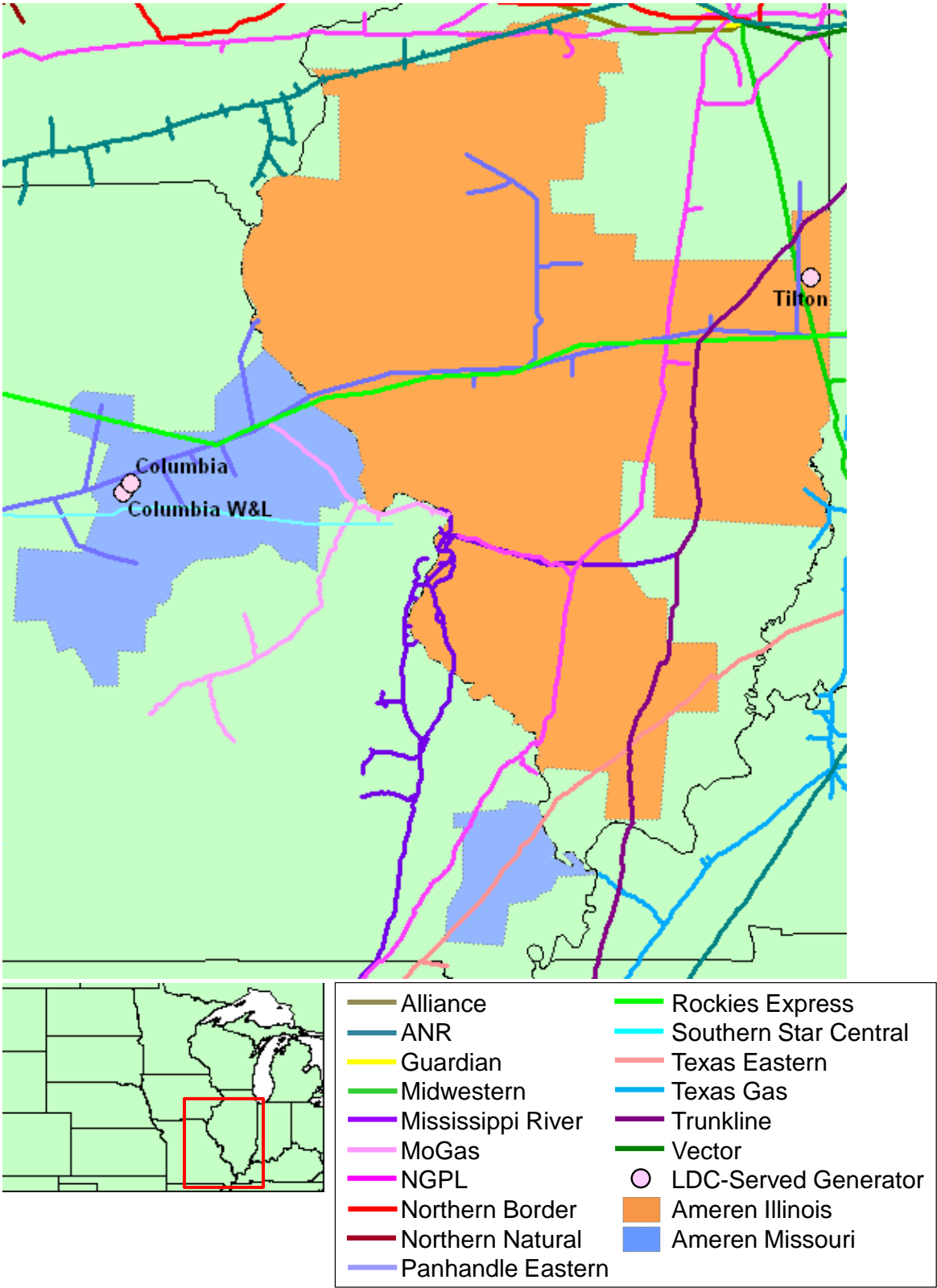


Figure A9-55. Ameren Service Territory

Table A9-81. MISO North/Central Generators Served by Ameren

System	Generator	Capacity (MW)
Illinois	Tilton	187
Missouri	Columbia	192
Missouri	Columbia W&L	48

Table A9-82. Ameren Citygate Meters

System	Pipeline	Meter Name	Meter Number
Illinois	ANR	IPC - Group 1	139233
Illinois	Midwestern	Ameren Illinois-SA	394684
Illinois	Midwestern	Ameren Power	283548
Illinois	Midwestern	Ameren SA	1260523
Illinois	Midwestern	Armstrong	4130
Illinois	Midwestern	Danville	216188
Illinois	Midwestern	East Lynn	4132
Illinois	Midwestern	Illinois Power	193266
Illinois	Midwestern	Oakwood	4128
Illinois	Midwestern	Vermillion - CIPS	3749
Illinois	Mississippi River	Ameren Illinois Aggrega	5535
Illinois	NGPL	Amer IL / NGPL Hennepin Bureau	34
Illinois	NGPL	Amer IL / NGPL Deland Piatt	148
Illinois	NGPL	Amer IL / NGPL Windsor Shelby	157
Illinois	NGPL	Amer IL / NGPL Mattoon Douglas	4879
Illinois	NGPL	Amer IL / NGPL Hillsboro Moultrie	25165
Illinois	NGPL	Amer IL / NGPL Ameren Bureau	46388
Illinois	NGPL	Amer IL / NGPL AM CDP	46594
Illinois	NGPL	Amer IL / NGPL GC CDP	46595
Illinois	NGPL	Amer IL / NGPL La Salle #2 La Salle	900030
Illinois	NGPL	Amer IL / NGPL La Salle #4 La Salle	900032
Illinois	NGPL	Amer IL / NGPL Ladd Bureau	900033
Illinois	NGPL	Amer IL / NGPL Hollowayville Bureau	900036
Illinois	NGPL	Amer IL / NGPL Dover Bureau	900037
Illinois	NGPL	Amer IL / NGPL Wyanet Bureau	900039
Illinois	NGPL	Amer IL / NGPL Manlius Bureau	900040
Illinois	NGPL	Amer IL / NGPL Mineral Bureau	900042
Illinois	NGPL	Amer IL / NGPL Kewanee Henry	900043
Illinois	NGPL	Amer IL / NGPL Atkinson Henry	900044
Illinois	NGPL	Amer IL / NGPL Sherrard Rock Island	900050
Illinois	NGPL	Amer IL / NGPL Mansfield Piatt	900147
Illinois	NGPL	Amer IL / NGPL Monticello Piatt	900149
Illinois	NGPL	Amer IL / NGPL Bement Piatt	900150
Illinois	NGPL	Amer IL / NGPL Cerro Gordo Piatt	900151
Illinois	NGPL	Amer IL / NGPL Hammond Piatt	900152

System	Pipeline	Meter Name	Meter Number
Illinois	NGPL	Amer IL / NGPL Lovington Moultrie	900153
Illinois	NGPL	Amer IL / NGPL Strasburg Shelby	900158
Illinois	NGPL	Amer IL / NGPL Edgewood Fayette	900163
Illinois	NGPL	Amer IL / NGPL Patoka Marion	900166
Illinois	NGPL	Amer IL / NGPL Shattuc Clinton	900168
Illinois	NGPL	Amer IL / NGPL Centralia Clinton	900170
Illinois	NGPL	Amer IL / NGPL Hoyleton Washington	900171
Illinois	NGPL	Amer IL / NGPL Dubois Washington	900173
Illinois	NGPL	Amer IL / NGPL Tamaroa Perry	900174
Illinois	NGPL	Amer IL / NGPL Vergennes Jackson	900176
Illinois	NGPL	Amer IL / NGPL Steeleville Jackson	900177
Illinois	NGPL	Amer IL / NGPL Gorham Jackson	900178
Illinois	NGPL	Amer IL / NGPL Sheffield Bureau	903600
Illinois	NGPL	Amer IL / NGPL Harrison Jackson	904881
Illinois	Northern Border	Princeton	1231251
Illinois	Panhandle Eastern	Ameren Illinois	PEAIC
Illinois	Trunkline	Ameren Illinois	TRKAIC
Missouri	MoGas	Ameren Zone2 AP	1130
Missouri	MoGas	Highway N	1040
Missouri	Panhandle Eastern	HT - Union Electric DbA Ameren Missouri	H0503
Missouri	Panhandle Eastern	PT - Union Electric DbA Ameren Missouri	P91102
Missouri	Panhandle Eastern	ADM World - Union Electric Deduct	09500
Missouri	Panhandle Eastern	Ameren Energy Columbia Plant - Union Electric Deduct	09502
Missouri	Panhandle Eastern	Cornerstone - Union Electric Deduct	09508
Missouri	Panhandle Eastern	Laclede Energy Resources - Union Electric Deduct	09507
Missouri	Panhandle Eastern	ONEOK Energy Marketing - Union Electric Deduct	09503
Missouri	Panhandle Eastern	Proliance Energy - Union Electric Deduct	09504
Missouri	Panhandle Eastern	Seminole Energy - Union Electric Deduct	09505
Missouri	Panhandle Eastern	The Energy Authority - Union Electric Deduct	09515
Missouri	Panhandle Eastern	University Of Missouri - Union Electric Deduct	09506
Missouri	Panhandle Eastern	Ameren - Union Electric Deduct	09509
Missouri	Panhandle Eastern	Centerpoint Energy Services - Union Electric Deduct	09513
Missouri	Panhandle Eastern	Clearwater Enterprises - Union Electric Deduct	09514
Missouri	Panhandle Eastern	Constellation Newenergy - Union Electric Deduct	09510
Missouri	Panhandle Eastern	Interstate Municipal Gas Assoc. - Union Electric Deduct	09512
Missouri	Panhandle Eastern	Laclede Energy Resources - Union Electric Deduct	09511
Missouri	Panhandle Eastern	Utility Gas Management - Union Electric Deduct	09501

Atmos Energy

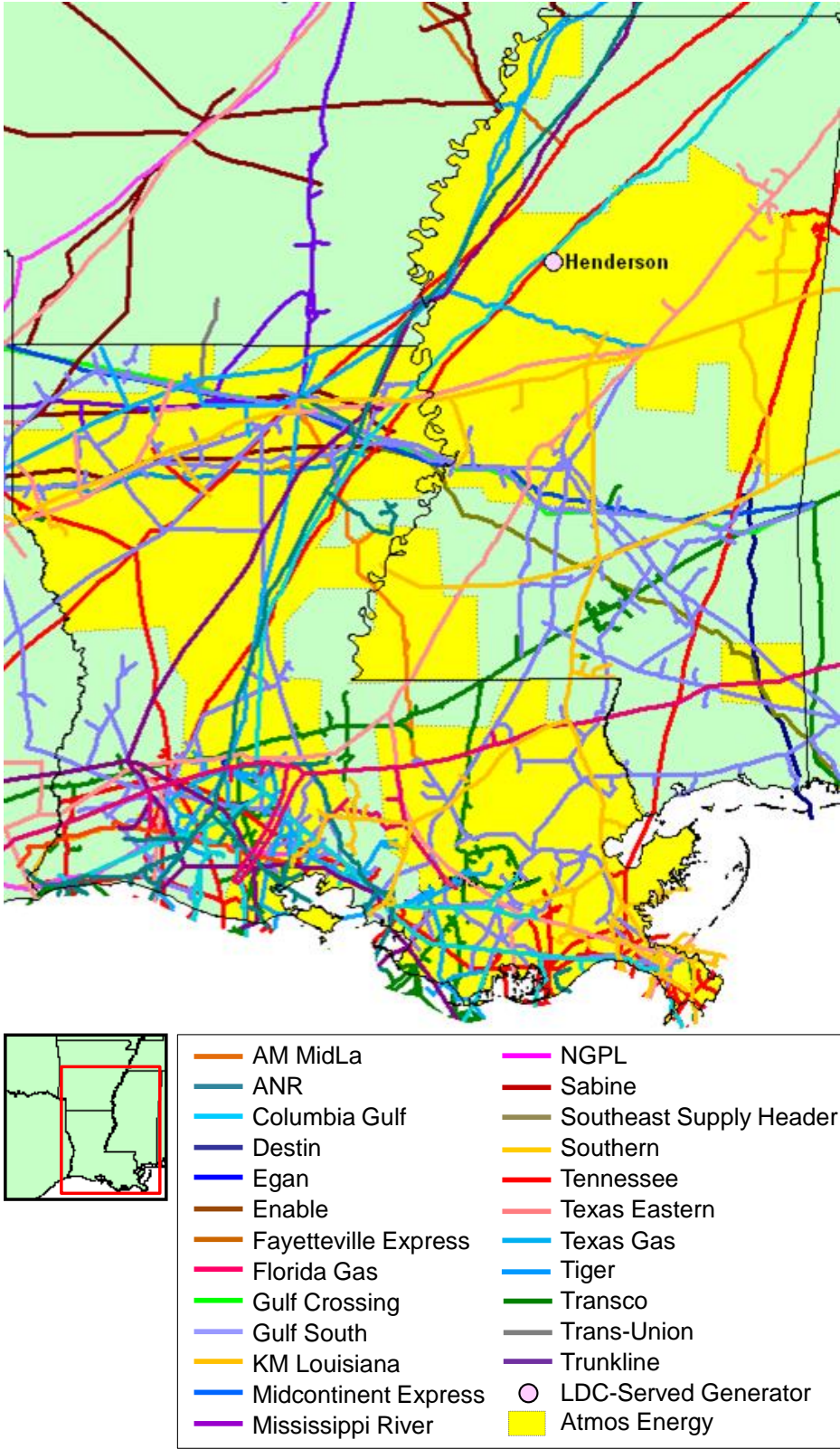


Figure A9-56. Atmos Energy Service Territory in MISO South

Table A9-83. MISO South Generators Served by Atmos Energy

Generator	Capacity (MW)
Henderson	56.9

Table A9-84. Atmos Energy Citygate Meters

Pipeline	Meter Name	Meter Number
Columbia Gulf	Atmos - Leflore, MS	4234
Gulf South	Lucedale City Gate	002428
Gulf South	Williamsville City Gate	002551
Gulf South	Mill Gansville/Tannehill Communities CG	003364
Gulf South	Jackson City Gates Aggregate SLN - MsVal	009915
Gulf South	West Monroe / Aggregate SLN-LGS	010715
Gulf South	Gloster Et. Al. WOTB/Farm Aggregate -LGS	010717
Gulf South	North Louisiana T. B. S. Aggregate -LGS	010718
Gulf South	Northeast Louisiana Aggregate - LGS	010719
Gulf South	Hammond/Ponchatoula Aggregate SLN - LGS	010720
Gulf South	Amite/Indep Aggregate - LGS	010721
Gulf South	Slidell Aggregate SLN - LGS	010722
Gulf South	Mandeville Aggregate SLN - LGS	010723
Gulf South	Delacroix/B.Chasse/Reserve Aggreg. - LGS	010724
Gulf South	Buras / Venice Aggregate SLN - LGS	010725
Gulf South	Goodwood/Webber Aggregate SLN - LGS	010726
Gulf South	Boutte-Luling-Des Allemands Aggr.-LGS	010821
Gulf South	Meridian South City Gate	011303
Gulf South	Lafayette Aggregate SLN	011314
Gulf South	Many Etal Aggregate	011315
Gulf South	D'arbonne Hills Aggregate	011316
Gulf South	Copperfield	012824
Gulf South	Cypress Bayou Casino (To TransLa)	012826
Gulf South	BR/NO-ST Rose-Marchand - LGS Aggregate	020476
Gulf South	St Mary Parish School - Trans La	020646
Gulf South	L.O. Peck	021103
Gulf South	St Louis Canal Road - Atmos City Gate	021486
MidLa	Alto, LA	020110
MidLa	Crew Lame	020111
MidLa	Gilbert, LA #1	020112
MidLa	Wisner, LA	020113
MidLa	Ferriday, LA	020105
MidLa	Forest Plantation Road	020117
MidLa	Natchez, MS #1	020103
MidLa	Natchez, MS #2	020106
MidLa	Woodville Prison	020118
NGPL	AtmosEn / NGPL Muleshoe Bailey	11433

Pipeline	Meter Name	Meter Number
NGPL	AtmosEn / NGPL Deaf Smith	25026
Southern	Atmos - Systemwide Farm Taps	746400
Southern	Atmos - Artesia	738300
Southern	Atmos - Carthage	735100
Southern	Atmos - Amory	739500
Southern	Atmos - North Central Gas District	735600
Southern	Atmos - Columbus	739200
Southern	Atmos - Starkville	738800
Southern	Atmos - Meridian Area	940000
Southern	Atmos - Benton	727300
Southern	Trans Louisiana Gas Company	703500
Southern	Atmos - Goodman	729000
Southern	Atmos - Noxapater	735500
Southern	Atmos - Dekalb	737200
Southern	Atmos - Naval Air Station	737500
Southern	Atmos - Pickens	728000
Southern	Atmos - Durant	730000
Southern	Polaris	710200
Southern	Atmos - Deer Creek Natural Gas District	725300
Southern	Atmos - Lexington	731100
Southern	Atmos - Kosciusko	734900
Southern	Atmos - Macon Line	736500
Southern	Atmos - Yazoo City	726000
Tennessee	Atmos-MS/TGP Greenwood MS Leflore	420211
Texas Eastern	Atmos Energy - Ethel - Attala Co. MS	70297
Texas Eastern	Mississippi Valley - McCool, MS	70298
Texas Eastern	Meadville, MS	70419
Texas Eastern	Bude, MS	70420
Texas Eastern	Atmos Energy - Amory, MS	70524
Texas Eastern	Miss. Valley Gas - Hinds Co., MS	72367
Texas Eastern	Atmos Energy -Monroe, MS	72967
Texas Eastern	MVG - Madison Co., MS	72990
Texas Eastern	Mississippi Valley - Clay Co., MS	73037
Texas Eastern	Miss Valley Gas #2 - Hinds Co., MS.	73238
Trunkline	Kilbourne, LA - Atmos Energy	80085
Trunkline	Crenshaw, MS - Atmos Energy	80079

CenterPoint Energy Arkansas

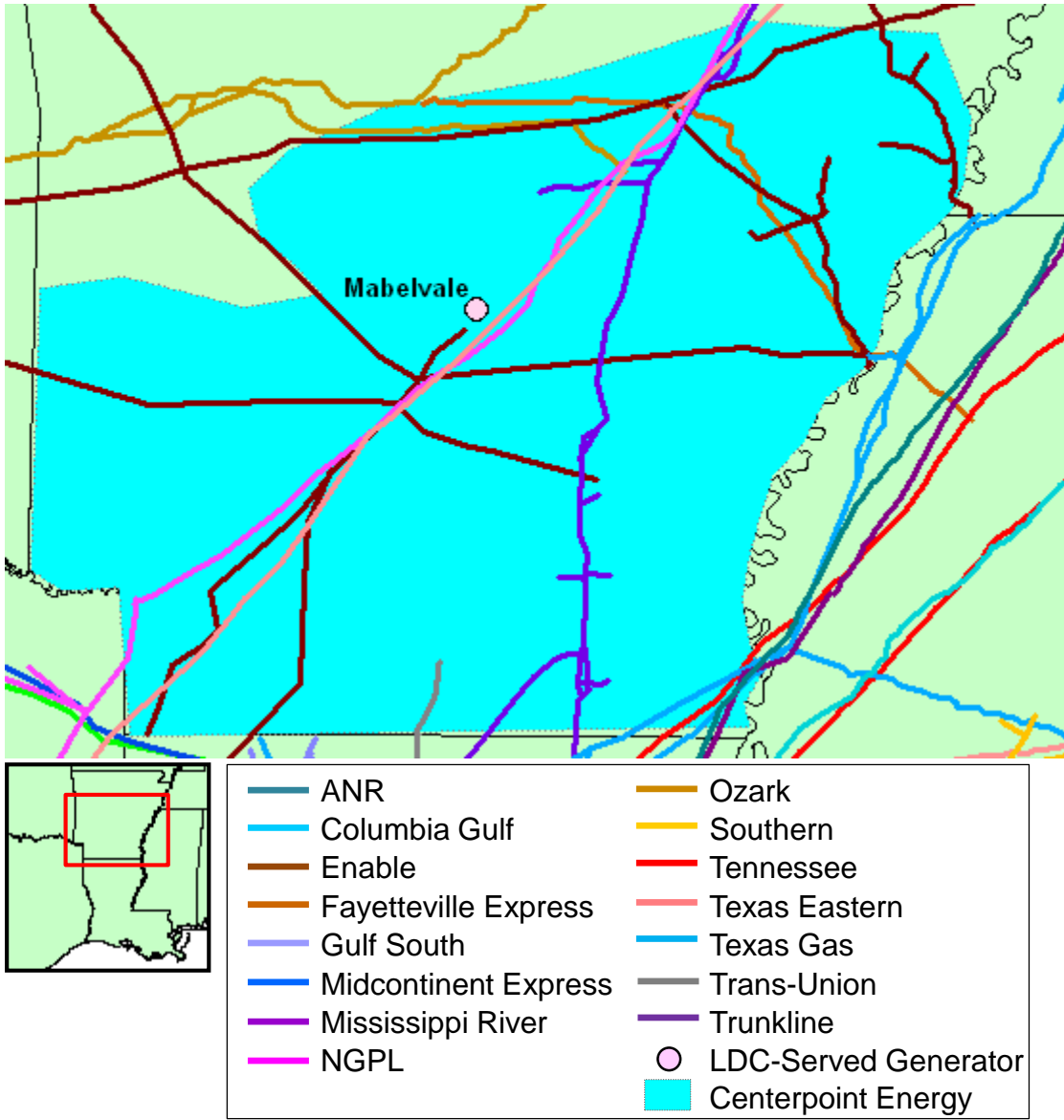


Figure A9-57. CenterPoint Energy Arkansas Service Territory

Table A9-85. MISO South Generators Served by Centerpoint Energy Arkansas

Generator	Capacity (MW)
Mabelvale	26

Table A9-86. Centerpoint Energy Arkansas Citygate Meters

Pipeline	Meter Name	Meter Number
Enable	Entergy @Mabelvale Acct	13790
Mississippi River	CenterPoint Energy Res	5533
NGPL	CE – ArkLa / NGPL #1 Lonoke	10603
NGPL	CE – ArkLa / NGPL #2 Lonoke	11303
Texas Eastern	ArkLa -McRae Junct. -White, AR	72597
Texas Eastern	ArkLa - Pulaski Co. AR.	73150
Texas Eastern	Centerpoint Energy - Granite Mountain Quarry, Pulaski CO.,	73729
Texas Gas	Ark La Shipper Deduct	1123

CenterPoint Energy Minnesota

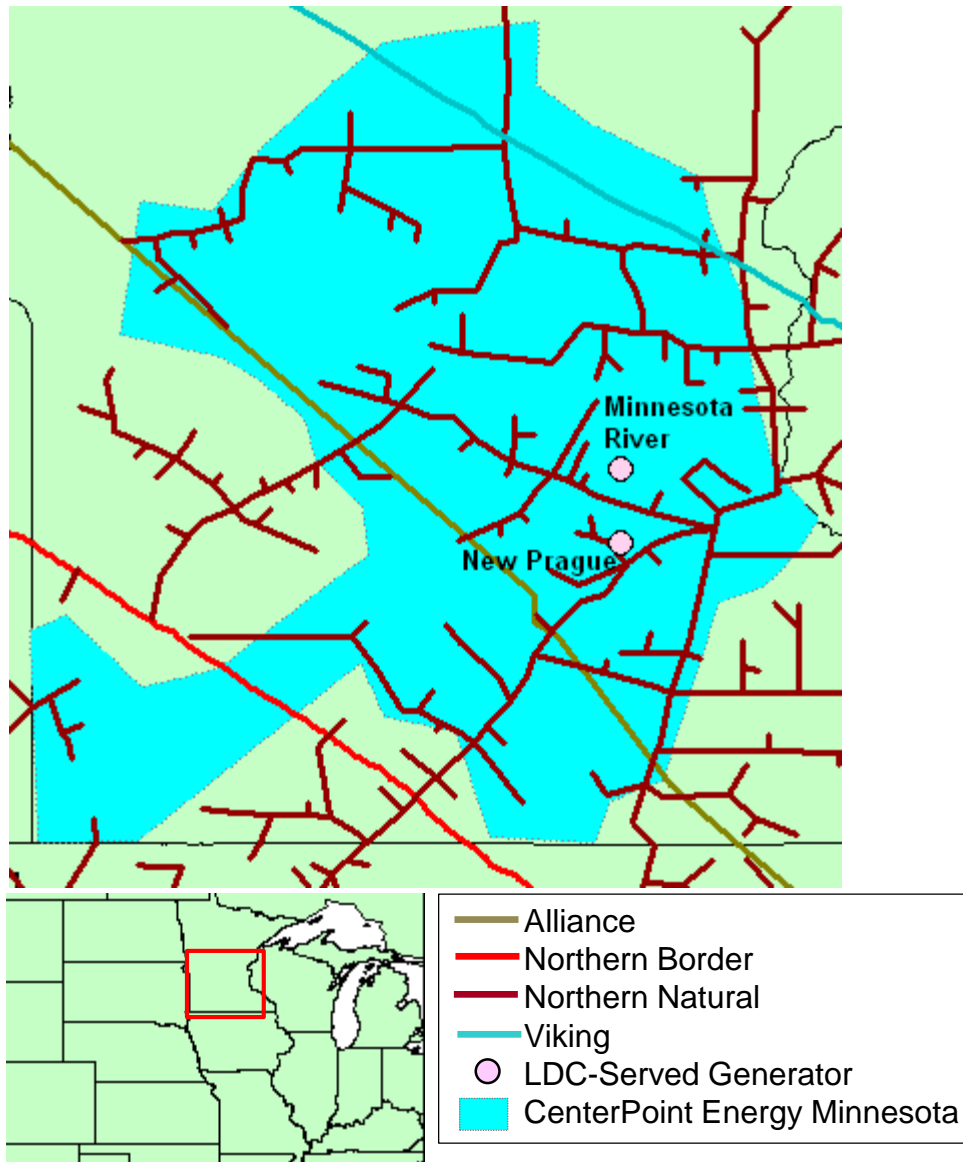


Figure A9-58. CenterPoint Energy Minnesota Service Territory

Table A9-87. MISO North/Central Generators Served by Centerpoint Energy Minnesota

Generator	Capacity (MW)
Minnesota River	48
New Prague	18

Table A9-88. Centerpoint Energy Minnesota Citygate Meters

Pipeline	Meter Name	Meter Number
Northern Natural	Zone EF Centerpoint Energy Minnesot	N/A
Northern Natural	Albany MN #1	1236
Northern Natural	Alexandria MN #1	1241
Northern Natural	Amboy MN #1	1955
Northern Natural	Annandale (Malco Manufacturing)	53956
Northern Natural	Annandale MN #1	3136
Northern Natural	Anoka MN #1	2295
Northern Natural	Anoka MN #1A	3137
Northern Natural	Arlington MN #1	1243
Northern Natural	Atwater MN #1	1247
Northern Natural	Avon - St.John MN #1	22017
Northern Natural	Belle Plaine MN #1	1248
Northern Natural	Benson MN #1	1251
Northern Natural	Big Lake MN #1	3138
Northern Natural	Big Lake MN #2	3139
Northern Natural	Blaine MN #1	2296
Northern Natural	Blaine MN #1A	3140
Northern Natural	Blue Earth MN #1	1252
Northern Natural	Braham MN #1	3143
Northern Natural	Brainerd MN #1	1255
Northern Natural	Browerville MN #1	1256
Northern Natural	Buckman MN #1	61633
Northern Natural	Buffalo MN #1	3144
Northern Natural	Cambridge #4 (William Kast)	57419
Northern Natural	Cambridge MN #1	3146
Northern Natural	Cambridge MN #1A	3147
Northern Natural	Cambridge MN #2	3148
Northern Natural	Centerville MN #1	57837
Northern Natural	Cleveland MN #1	1261
Northern Natural	Coates MN #1	1262
Northern Natural	Cokato MN #1	1268
Northern Natural	Cold Spring MN #1	1274
Northern Natural	Cologne MN #1	1271
Northern Natural	Coon Rapids MN #1	2294
Northern Natural	Corcoran MN #1	78860
Northern Natural	Cyrus MN #1	1276
Northern Natural	Dassell MN #1	1277
Northern Natural	Dayton MN #1	3153
Northern Natural	Eagle Lake MN #1	1278
Northern Natural	Elk River MN #1	3154
Northern Natural	Elk River MN #1B	3156
Northern Natural	Elk River MN #3	3158

Pipeline	Meter Name	Meter Number
Northern Natural	Freeport MN #1	1279
Northern Natural	Gaylord MN #1	1282
Northern Natural	Glencoe MN #1	1287
Northern Natural	Glenwood MN #1	1289
Northern Natural	Grandy MN #1	3159
Northern Natural	Grasston MN #1	3160
Northern Natural	Grove City MN #1	1292
Northern Natural	Ham Lake MN #1	22020
Northern Natural	Hancock MN #1	1294
Northern Natural	Hartland MN #1	1296
Northern Natural	Hastings MN #1	1303
Northern Natural	Hastings MN #1A	15721
Northern Natural	Hastings MN #1B (Cottage Grove)	22927
Northern Natural	Hastings MN #1C	1312
Northern Natural	Hector MN #1	1956
Northern Natural	Howard Lake MN #1	1316
Northern Natural	Ihlen MN #1	1319
Northern Natural	Isanti MN #1	3161
Northern Natural	Janesville MN #1	1322
Northern Natural	Jasper MN #1	1323
Northern Natural	Jordan MN #1	1326
Northern Natural	Jordan MN #2	1328
Northern Natural	Kimball MN #1	3162
Northern Natural	Lake Crystal MN #1	1330
Northern Natural	Lake Crystal MN #2	1332
Northern Natural	Lastrup MN #1	61632
Northern Natural	Le Center MN #1	1334
Northern Natural	Le Sueur MN #1	1336
Northern Natural	Lester Prairie MN #1	1342
Northern Natural	Lewisville MN #1	1345
Northern Natural	Lexington MN #1	3163
Northern Natural	Lexington MN #1A	3164
Northern Natural	Litchfield MN #1	1346
Northern Natural	Little Falls MN #1	1347
Northern Natural	Little Falls MN #1A	1353
Northern Natural	Long Prairie MN #1	1355
Northern Natural	Lonsdale MN #1	1354
Northern Natural	Lowry MN #1	1356
Northern Natural	Luverne MN #1	1358
Northern Natural	Madelia MN #1	1359
Northern Natural	Mankato MN #1	1373
Northern Natural	Mankato MN #1A	2775
Northern Natural	Maple Lake MN #1	3165

Pipeline	Meter Name	Meter Number
Northern Natural	Mayer MN 1	25969
Northern Natural	Medford MN #1	1401
Northern Natural	Melrose MN #1	1405
Northern Natural	Minneapolis MN #1D	1436
Northern Natural	Minneapolis MN #1E	25968
Northern Natural	Minneapolis MN #1G	1442
Northern Natural	Minneapolis MN #1H	1450
Northern Natural	Minneapolis MN #1K	12933
Northern Natural	Minneapolis MN #1P	1455
Northern Natural	Minneapolis MN #1Q	2774
Northern Natural	Minneapolis MN #1R	1462
Northern Natural	Minnetrista MN #1	56628
Northern Natural	Montgomery MN #1	1470
Northern Natural	Monticello MN #1	3166
Northern Natural	Morris MN #1	1471
Northern Natural	Morris MN #2	1473
Northern Natural	Morristown MN #1	1474
Northern Natural	Mound Village MN #1	1476
Northern Natural	Nelson MN #1	1477
Northern Natural	New Prague MN #1	1456
Northern Natural	Nicollet MN #1	60077
Northern Natural	Norwood-Y.A. MN	1460
Northern Natural	Olivia MN #1	1466
Northern Natural	Osakis MN #1	1468
Northern Natural	Paynesville MN #1	1472
Northern Natural	Pierz MN #1	1475
Northern Natural	Pipestone MN #1	1478
Northern Natural	Plato MN #1	1479
Northern Natural	Princeton MN #1	3167
Northern Natural	Prior Lake MN #1	1480
Northern Natural	Prior Lake MN #1 D	60093
Northern Natural	Prior Lake MN #1 E	60092
Northern Natural	Prior Lake MN #1A	12934
Northern Natural	Prior Lake MN #1C	59674
Northern Natural	Randolph MN #1	1481
Northern Natural	Richmond MN #1	1417
Northern Natural	Rockford MN #1	1421
Northern Natural	Rockville MN #1	1423
Northern Natural	Roscoe MN #1	1427
Northern Natural	Sauk Centre MN #1	1398
Northern Natural	Savage MN #1E	2141
Northern Natural	Silver Lake MN #1	1407
Northern Natural	Sleepy Eye MN #1	1410

Pipeline	Meter Name	Meter Number
Northern Natural	Sleepy Eye MN #2	1415
Northern Natural	South Haven MN #1	3168
Northern Natural	South Haven MN #1A	3169
Northern Natural	Spring Lake Park MN #1	3170
Northern Natural	Springfield MN #1	1419
Northern Natural	St Bonifacius MN #1	1430
Northern Natural	St. James MN #1	1433
Northern Natural	St. Michael MN #1	1437
Northern Natural	St. Michael MN #1A	12935
Northern Natural	St. Peter MN #1	1440
Northern Natural	St. Peter MN #2	1441
Northern Natural	Stanchfield MN #1	3171
Northern Natural	Starbuck MN #1	1424
Northern Natural	Veseli MN #1	1432
Northern Natural	Waconia MN #1	1435
Northern Natural	Waconia MN #1A	1439
Northern Natural	Waconia MN #3	12937
Northern Natural	Waseca MN #1	15729
Northern Natural	Waseca MN #1A	1375
Northern Natural	Waseca MN #1B	1379
Northern Natural	Waseca MN #2	1381
Northern Natural	Waterville MN #1	1383
Northern Natural	Watkins MN #1	3173
Northern Natural	Willmar MN #1	1387
Northern Natural	Winnebago MN #1	1389
Northern Natural	Winsted MN #1	1392
Northern Natural	Winthrop MN #1	1394
Northern Natural	Zimmerman MN #1	22019

Citizens Gas (Citizens Energy Group)

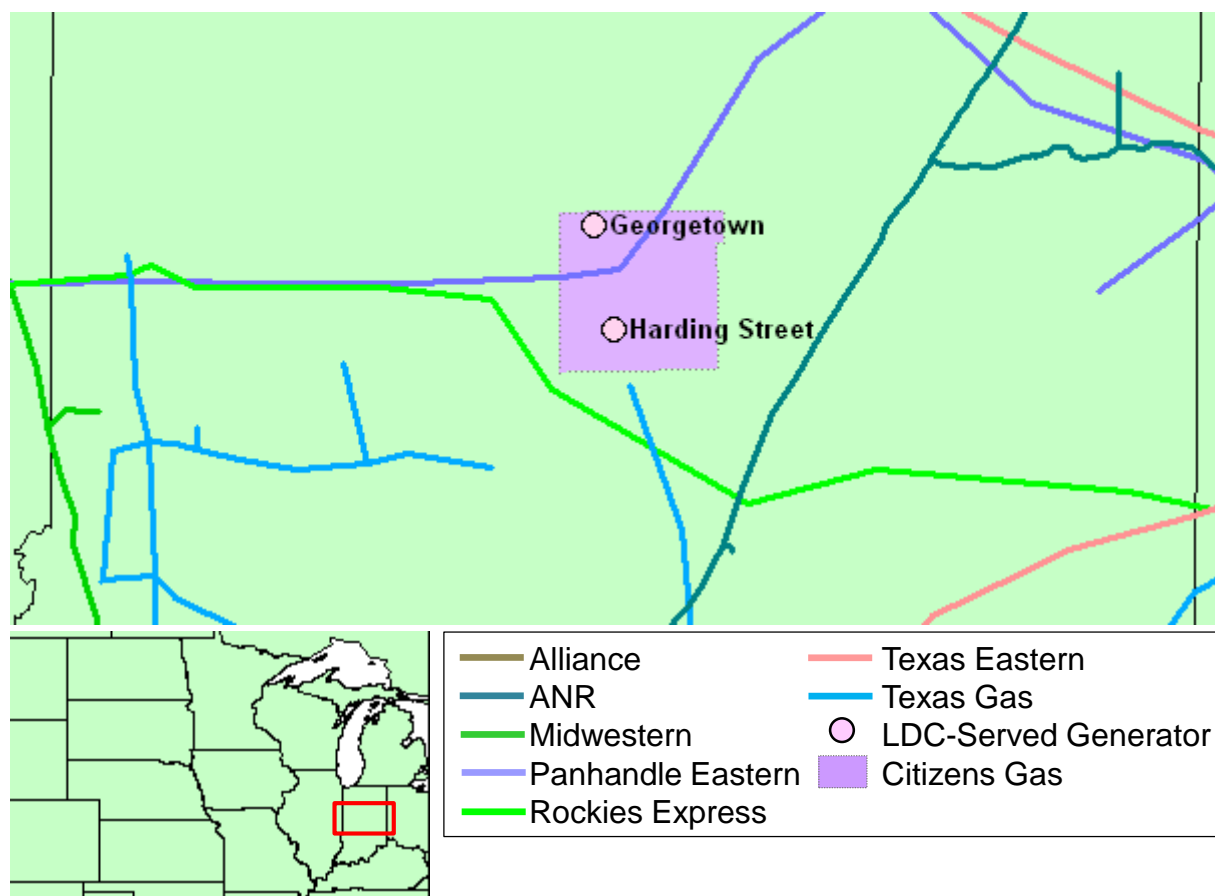


Figure A9-59. Citizens Gas Service Territory

Table A9-89. MISO North/Central Generators Served by Citizens Gas

Generator	Capacity (MW)
Georgetown	360
Harding Street	378

Table A9-90. Citizens Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Panhandle Eastern	Citizens Energy Group	CITGC
Panhandle Eastern	Citizens Energy Group IP&L Delivery	02854
Rockies Express	Citizens/REX Morgan	44430
Texas Gas	Citizens Shipper Ded	1367

Consumers Energy

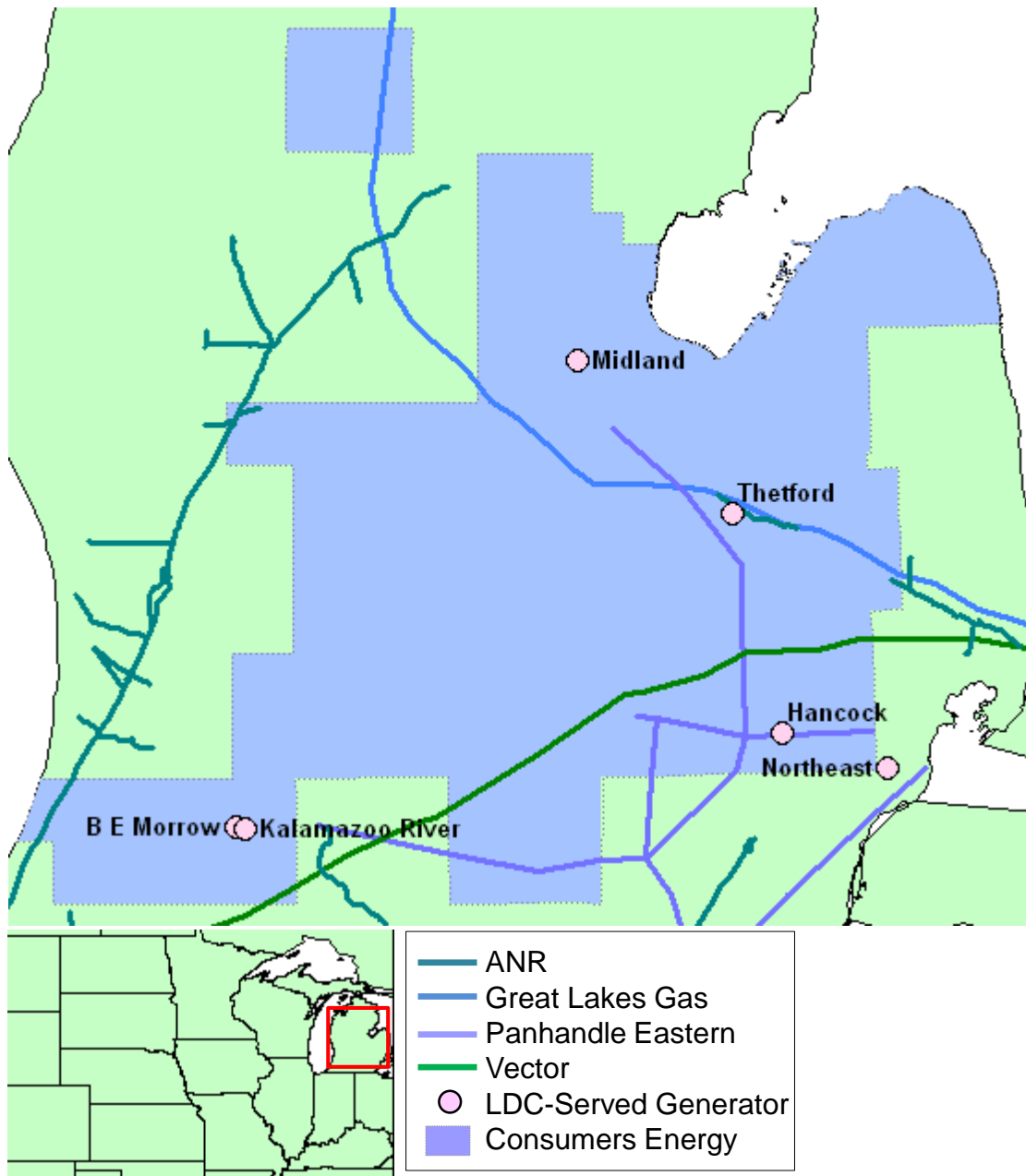


Figure A9-60. Consumers Energy Service Territory

Table A9-91. MISO North/Central Generators Served by Consumers Energy

Generator	Capacity (MW)
B E Morrow	34
Hancock	183
Kalamazoo	70
Northeast	150
Thetford	233

Table A9-92. Citizens Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Great Lakes	Birch Run	11760
Panhandle Eastern	Consumers Energy	MGS
Trunkline	Elkhart - Consumers Energy	80001
Vector	Hartland	378973
Vector	Ray	378975

DTE Gas (DTE Energy)¹⁵

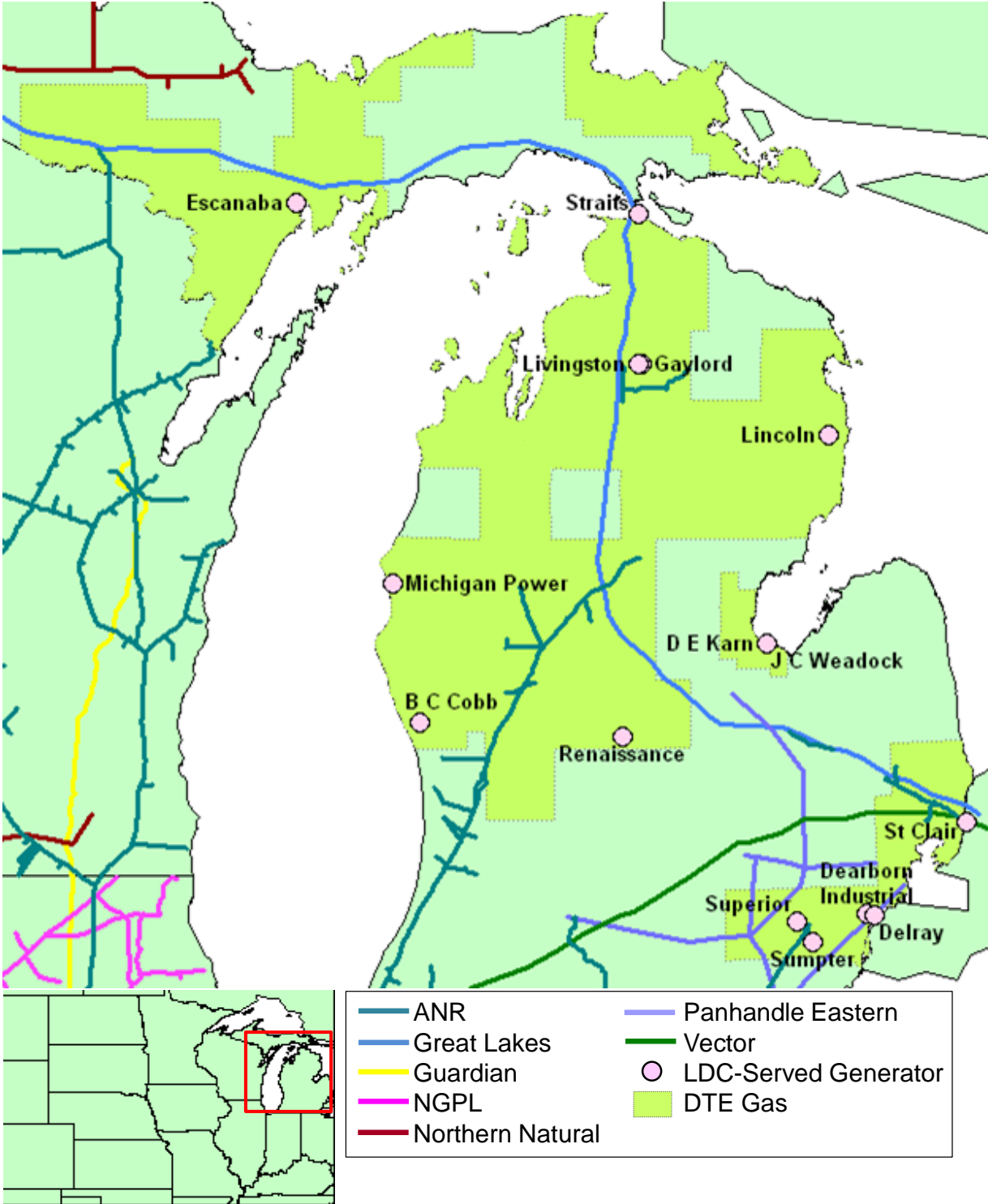


Figure A9-61. DTE Gas Service Territory

¹⁵ Previously known as Michigan Consolidated Gas.

Table A9-93. MISO North/Central Generators Served by DTE Gas

Generator	Capacity (MW)
B C Cobb	183
D E Karn	1276
Dearborn Industrial	715
Delray	159
Escanaba	18
Gaylord	85
Gaylord	72
J C Weadock	17
Lincoln	18
Livingston	132
Michigan Power	123
Renaissance	776
St Clair	23
Straits	21
Sumpter	340
Superior	76

Table A9-94. DTE Gas Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	MichCon-Grp 1	139248
ANR	MichCon-Grp 2	139369
ANR	MichCon-Grp 3	139382
ANR	Willow Run (to MichCon)	42078
ANR	Alpena Del/Mich Con Gas	40832
ANR	Sparta-Muskegon	40849
ANR	Menominee	11702
Great Lakes	Sault Ste. Marie MichCon	11596
Great Lakes	Rudyard	11595
Great Lakes	Gaylord	11741
Great Lakes	Petoskey	11594
Great Lakes	Pellston	40835
Great Lakes	Mackinaw	11625
Great Lakes	Rapid River	11623
Great Lakes	Sagola	473414
Great Lakes	Goose Creek	199466
Panhandle Eastern	HT - DTE Gas Co	H0493
Panhandle Eastern	PT - DTE Gas Co	P91092

Entergy New Orleans

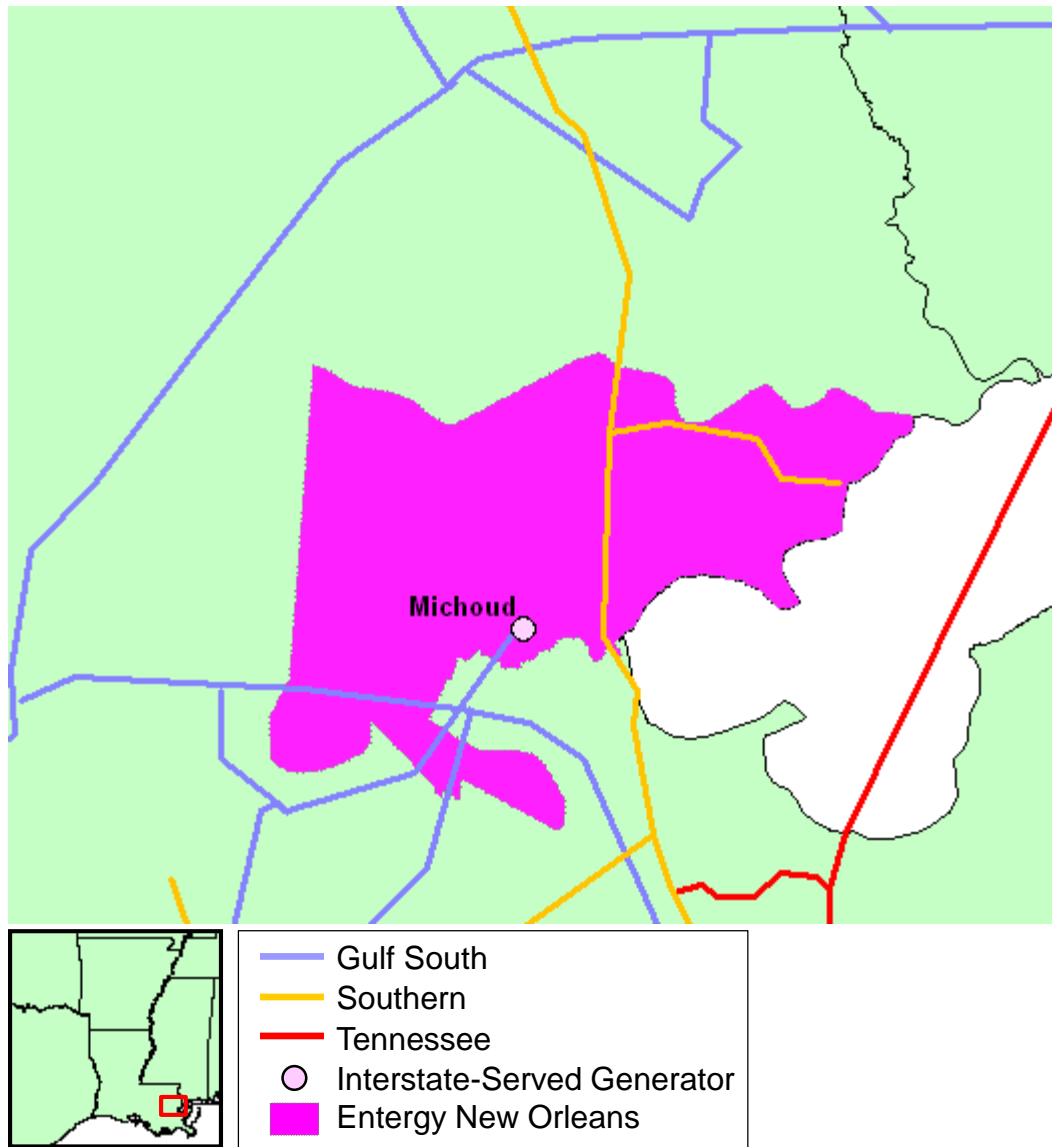


Figure A9-62. Entergy New Orleans Service Territory

Table A9-95. MISO South Generators Served by Entergy New Orleans

Generator	Capacity (MW)
Michoud	777

Table A9-96. Entergy New Orleans Citygate Meters

Pipeline	Meter Name	Meter Number
Gulf South	NOPSI Aggregate – New Orleans Public Ser	009921

Liberty Utilities

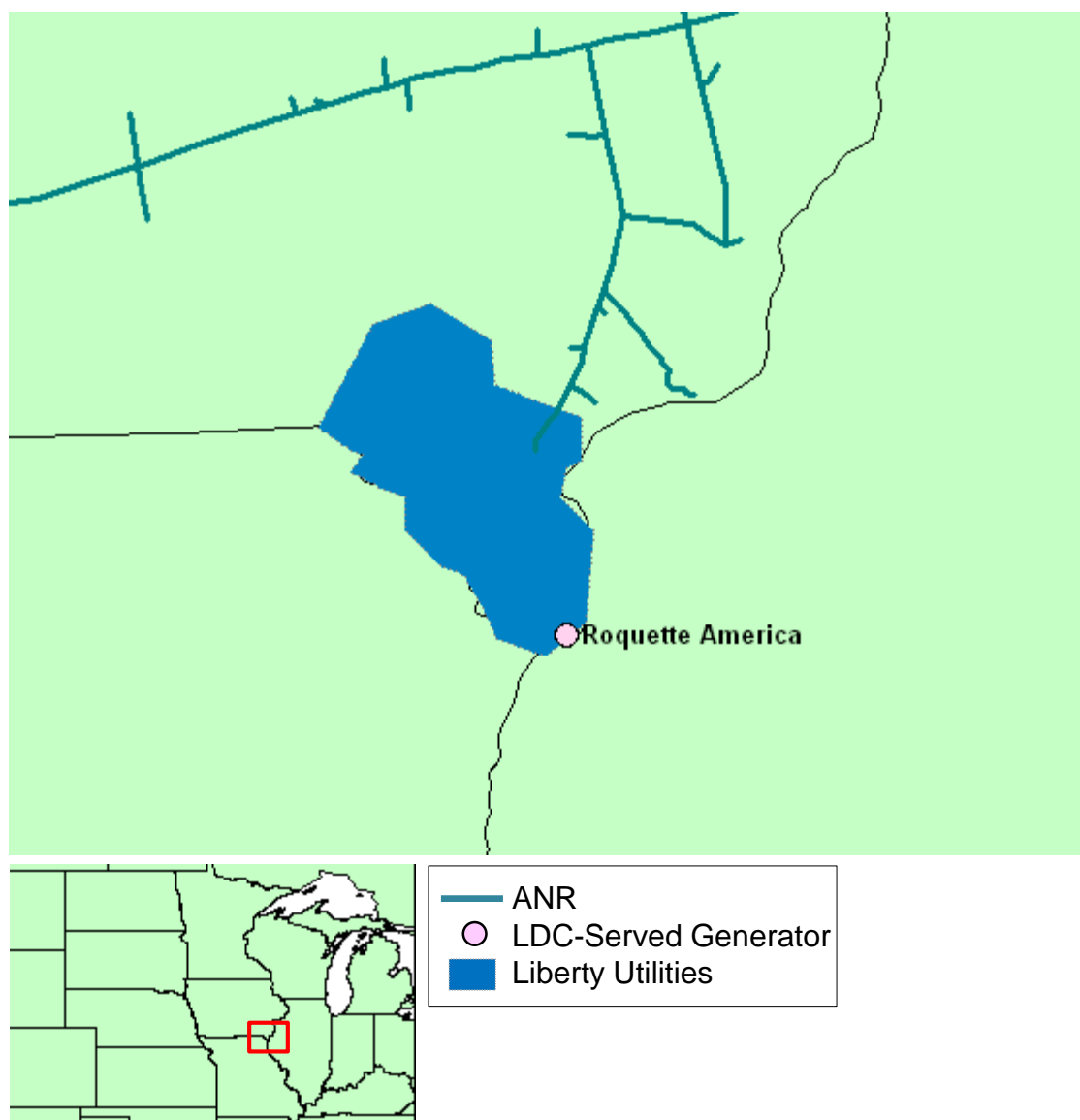


Figure A9-63. Liberty Utilities Service Territory

Table A9-97. MISO North/Central Generators Served by Liberty Utilities

Generator	Capacity (MW)
Roquette America	35

Table A9-98. Liberty Utilities Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	Keokuk	4741
ANR	Kirksville	4602

Madison Gas and Electric (MGE Energy, Inc.)

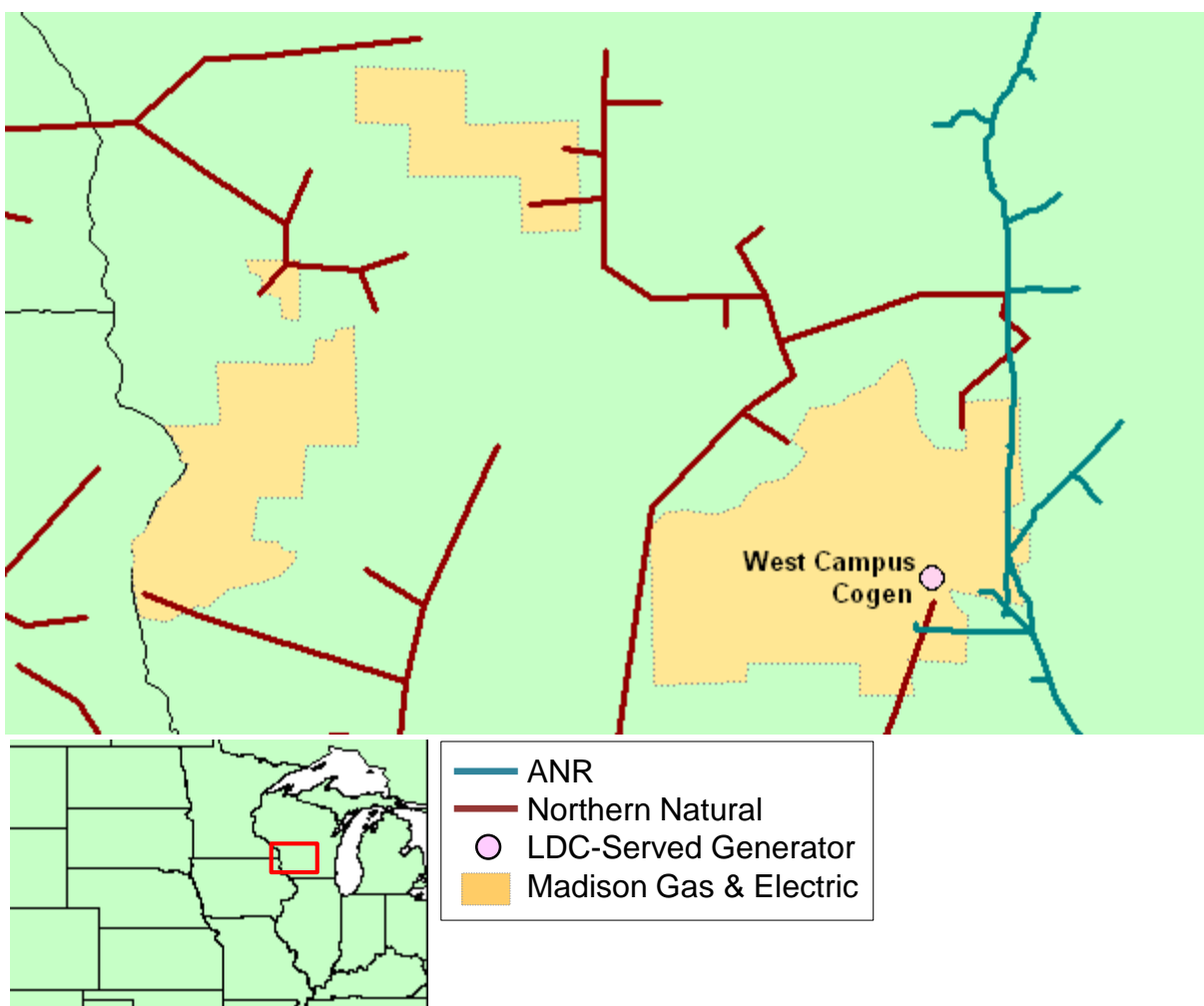


Figure A9-64. Madison Gas and Electric Service Territory

Table A9-99. MISO North/Central Generators Served by Madison Gas & Electric

Generator	Capacity (MW)
West Campus Cogen	130

Table A9-100. Madison Gas & Electric Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	Madison Gas-Grp 1	139253
Northern Natural	Zone D-Madison G&E	N/A
Northern Natural	Elroy WI #1	4144
Northern Natural	Madison WI #1	53782
Northern Natural	Prairie Du Chien WI #1	4052
Northern Natural	Readstown WI #1	61808
Northern Natural	Viroqua WI #1	4060

Michigan Gas Utilities

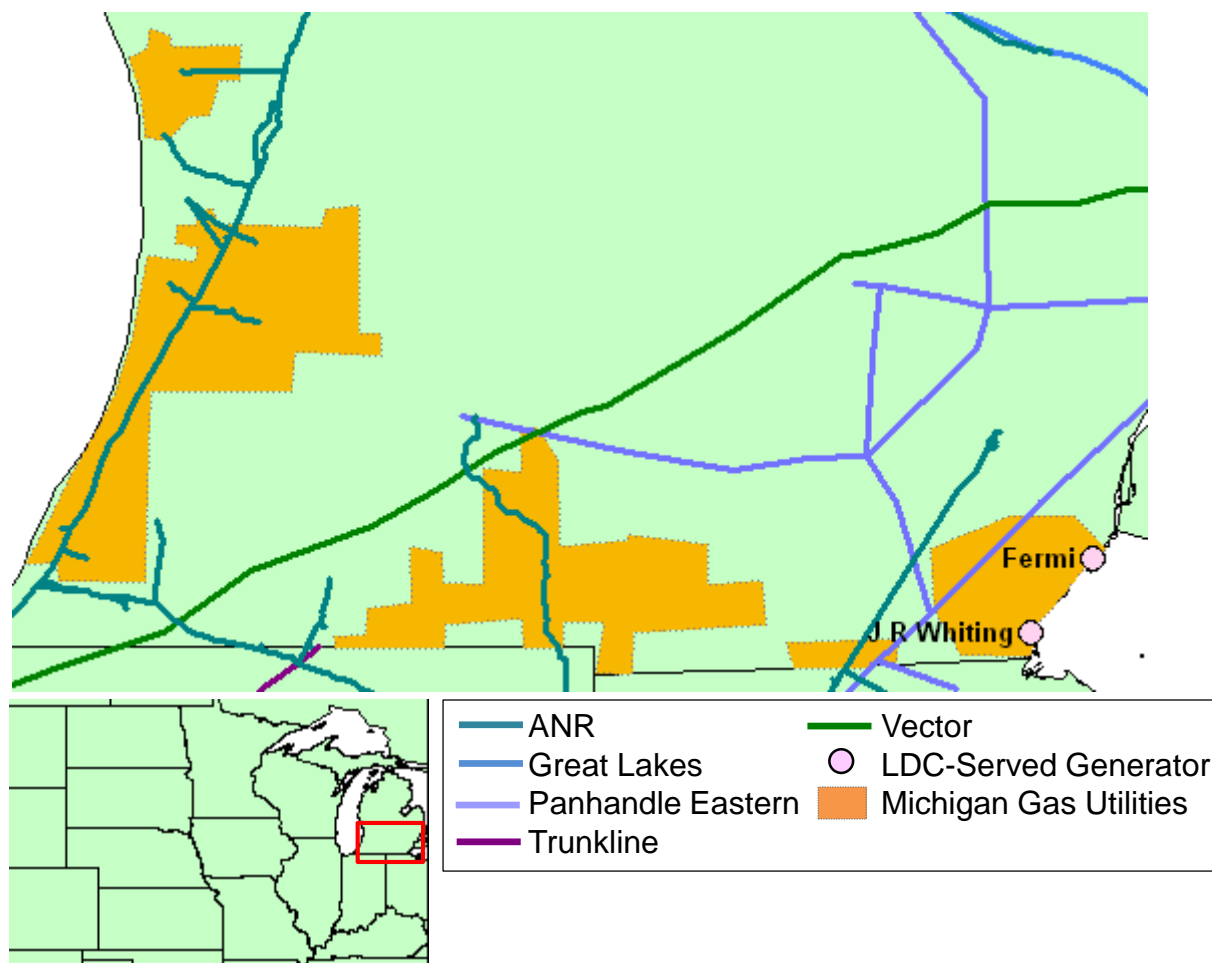


Figure A9-65. Michigan Gas Utilities Service Territory

Table A9-101. MISO North/Cental Generators Served by Michigan Gas Utilities

Generator	Capacity (MW)
Fermi	75
J R Whiting	17

Table A9-102. Michigan Gas Utilities Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	MGUC - Grp 1	139250
ANR	MGUC - Grp 2	139371
ANR	MGUC - Grp 3	139384
Panhandle Eastern	HT - Michigan Gas Utilities	H0466
Panhandle Eastern	PT - Michigan Gas Utilities	P91066
Panhandle Eastern	Michigan Gas Utilities	MGU
Trunkline	Elkhart - MGU	80002

MidAmerican Energy

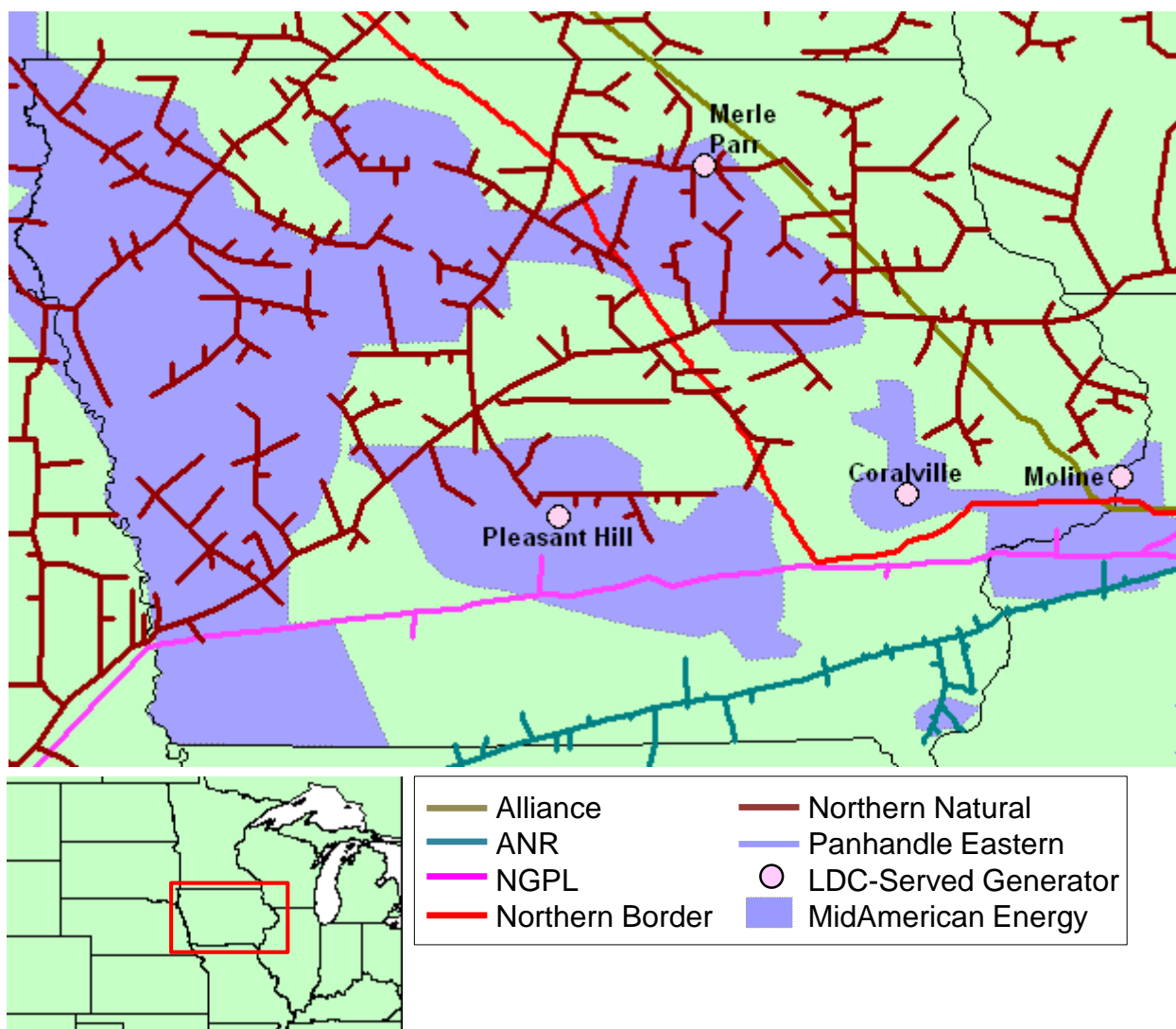


Figure A9-66. MidAmerican Energy Service Territory

Table A9-103. MISO North/Central Generators Served by MidAmerican Energy

Generator	Capacity (MW)
Coralville	80
Merle Parr	36
Moline	80
Pleasant Hill	194

Table A9-104. MidAmerican Energy Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	MidAmerican - Grp 1	139246
NGPL	MidAmer / NGPL Malvern Mills	113
NGPL	MidAmer / NGPL Pacific Jct Mills	115
NGPL	MidAmer / NGPL Des Moines Warren	3950
NGPL	MidAmer / NGPL CDP	10568
NGPL	MidAmer / NGPL Ottumwa #2 Mahaska	900078
NGPL	MidAmer / NGPL New Sharon Mahaska	900080
NGPL	MidAmer / NGPL Ottumwa #1 Mahaska	900081
NGPL	MidAmer / NGPL Oskaloosa Mahaska	900082
NGPL	MidAmer / NGPL Leighton Mahaska	900083
NGPL	MidAmer / NGPL Tracy Marion	900085
NGPL	MidAmer / NGPL Harvey Marion	900086
NGPL	MidAmer / NGPL Attica Marion	900087
NGPL	MidAmer / NGPL Melcher Marion	900089
NGPL	MidAmer / NGPL Pleasantville Marion	900090
NGPL	MidAmer / NGPL Milo Warren	900092
NGPL	MidAmer / NGPL Indianola Warren	900093
NGPL	MidAmer / NGPL Martensdale Warren	900094
NGPL	MidAmer / NGPL St Charles Madison	900096
NGPL	MidAmer / NGPL Winterset Madison	900098
NGPL	MidAmer / NGPL Afton Union	900103
NGPL	MidAmer / NGPL Elliott Montgomery	900110
NGPL	MidAmer / NGPL Red Oak Montgomery	900111
NGPL	MidAmer / NGPL Emerson Mills	900112
Northern Border	Iowa City	227974
Northern Border	Davenport	227976
Northern Natural	Zone ABC - MidAmerican	N/A
Northern Natural	Zone D - MidAmerican	N/A
Northern Natural	Adel IA #1	3229
Northern Natural	Adel IA #2	3230
Northern Natural	Akron IA #1	3664
Northern Natural	Alden IA #1	3620
Northern Natural	Algona IA #1	3127
Northern Natural	Allison IA #1	3666
Northern Natural	Altoona IA #1	3231
Northern Natural	Alvord IA #1	3668
Northern Natural	Ames IA #1	2884
Northern Natural	Ankeny IA #1	3233
Northern Natural	Ankeny IA #2	2781
Northern Natural	Aplington IA #1	3669
Northern Natural	Aplington IA #2	3670
Northern Natural	Archer IA #1	3671

Pipeline	Meter Name	Meter Number
Northern Natural	Arthur IA #1	3672
Northern Natural	Audubon IA #1	3673
Northern Natural	Audubon IA #2	3674
Northern Natural	Aurelia IA #1	3675
Northern Natural	Avoca IA #1	3234
Northern Natural	Badger IA #1	3656
Northern Natural	Bagley IA #1	3128
Northern Natural	Battle Creek IA #1	3707
Northern Natural	Bayard IA #1	3129
Northern Natural	Belmond IA #1	3578
Northern Natural	Bondurant IA #1	3235
Northern Natural	Boone IA #1	2871
Northern Natural	Boyden IA #1	3676
Northern Natural	Brayton IA #1	3677
Northern Natural	Bristow IA #1	3678
Northern Natural	Callender IA #1	3660
Northern Natural	Calumet IA #1	3679
Northern Natural	Camp Dodge IA #1	2784
Northern Natural	Carson IA #1	3236
Northern Natural	Cedar Rapids/Vinton IA	54227
Northern Natural	Chapin IA #1	3681
Northern Natural	Charles City IA #1	3682
Northern Natural	Charles City IA #1A	3683
Northern Natural	Clarion IA #1	3684
Northern Natural	Clarksville IA #1	3686
Northern Natural	Cleghorn IA #1	3687
Northern Natural	Coalville IA #1	3662
Northern Natural	Colfax IA #1	3237
Northern Natural	Cylinder IA #1	3688
Northern Natural	Dallas Center IA #1	3238
Northern Natural	Danbury IA #1	3708
Northern Natural	Defiance IA #1	3693
Northern Natural	Denver IA #1	3275
Northern Natural	Des Moines IA #1	2195
Northern Natural	Des Moines IA #11	2776
Northern Natural	Des Moines IA #1A	2777
Northern Natural	Des Moines IA #1C	2779
Northern Natural	Des Moines IA #1D	2780
Northern Natural	Dexter IA #1	3240
Northern Natural	Doon IA #1	3276
Northern Natural	Dumont IA #1	3277
Northern Natural	Duncombe IA #1	3661
Northern Natural	Dunlap IA #1	3241

Pipeline	Meter Name	Meter Number
Northern Natural	Eagle Grove IA #1	3278
Northern Natural	Earlham IA #1	3242
Northern Natural	Earling IA #1	3279
Northern Natural	Early IA #1	3280
Northern Natural	Early IA #2	3358
Northern Natural	Elk Horn IA #1	3281
Northern Natural	Evansdale IA #1	3283
Northern Natural	Exira IA #1	3284
Northern Natural	Fenton IA #1	3130
Northern Natural	Ft. Dodge IA #1	3426
Northern Natural	Ft. Dodge IA #1A	3657
Northern Natural	Galva IA #1	3285
Northern Natural	Germantown IA #1	3288
Northern Natural	Gilbertville IA #1	3289
Northern Natural	Goldfield IA #1	3290
Northern Natural	Granville IA #1	3291
Northern Natural	Griswold IA #1	3243
Northern Natural	Hamlin IA #1	3292
Northern Natural	Hampton IA #1	3293
Northern Natural	Hancock IA #1	3244
Northern Natural	Holstein IA #1	3294
Northern Natural	Hospers IA #1	3295
Northern Natural	Hudson IA #1	3296
Northern Natural	Hull IA #1	3297
Northern Natural	Humboldt IA #1	3298
Northern Natural	Ida Grove IA #1	3299
Northern Natural	Independence IA #1	3300
Northern Natural	Inwood IA #1	3301
Northern Natural	Irwin IA #1	3302
Northern Natural	Jamaica IA #1	3131
Northern Natural	Janesville IA #1	3303
Northern Natural	Janesville IA #1A	3695
Northern Natural	Jessup IA #1	3307
Northern Natural	Johnston IA #1	2778
Northern Natural	Kesley IA #1	3308
Northern Natural	Kimballton IA #1	3245
Northern Natural	Kingsley IA #1	3309
Northern Natural	Lake City IA #1	3310
Northern Natural	Latimer IA #1	3311
Northern Natural	Lawton IA #1	3312
Northern Natural	Lawton IA #2	3313
Northern Natural	Le Mars IA #1A	3314
Northern Natural	Linden IA #1	3252

Pipeline	Meter Name	Meter Number
Northern Natural	Logan IA #1	3246
Northern Natural	Lohrville IA #1	3315
Northern Natural	Lytton IA #1	3316
Northern Natural	Macedonia IA #1	3248
Northern Natural	Manson IA #1	3659
Northern Natural	Marcus IA #1	3317
Northern Natural	Marne IA #1	3249
Northern Natural	Marshalltown IA #1	2875
Northern Natural	Marshalltown IA #1A	3601
Northern Natural	Meriden IA #1	3318
Northern Natural	Merrill IA #1	3319
Northern Natural	Minburn IA #1	3250
Northern Natural	Minden IA #1	3251
Northern Natural	Mineola IA #1	3253
Northern Natural	Mingo IA #1	3254
Northern Natural	Missouri Valley IA #1	3255
Northern Natural	Missouri Valley IA #2	3256
Northern Natural	Mitchellville IA #1	3257
Northern Natural	Monroe IA #1	3258
Northern Natural	Monroe IA #2	3259
Northern Natural	Moville IA #1	3320
Northern Natural	Nashua IA #1	3322
Northern Natural	Neola IA #1	3260
Northern Natural	New Hartford IA #1	3324
Northern Natural	Newell IA #1	3323
Northern Natural	Newkirk IA #1	3325
Northern Natural	Oakland IA #1	3261
Northern Natural	Odebolt Grain Dryer	78018
Northern Natural	Odebolt IA #1	3326
Northern Natural	Otho IA #1	3663
Northern Natural	Panora IA #1	3262
Northern Natural	Parkersburg IA #1	3328
Northern Natural	Perry IA #1	3132
Northern Natural	Perry IA #2	3133
Northern Natural	Persia IA #1	3263
Northern Natural	Plainfield IA #1	3329
Northern Natural	Pleasant Hill IA #1	78195
Northern Natural	Polk City IA #1	3264
Northern Natural	Portsmouth IA #1	3265
Northern Natural	Prairie City IA #1	3266
Northern Natural	Quad Cities IA #1	62858
Northern Natural	Redfield IA #1	3267
Northern Natural	Rock Valley IA #1	3330

Pipeline	Meter Name	Meter Number
Northern Natural	Rockwell City IA #1	3332
Northern Natural	Rockwell City IA #1A	3333
Northern Natural	Rockwell IA #1	3331
Northern Natural	Ruthven IA #1	3334
Northern Natural	Salix IA #1	3335
Northern Natural	Salix IA #2	3336
Northern Natural	Salix IA #3	3337
Northern Natural	Schaller IA #1	3338
Northern Natural	Sergeant Bluff IA #1	3339
Northern Natural	Sheffield IA #1	3341
Northern Natural	Shelby IA #1	3268
Northern Natural	Sheldon IA #1	3342
Northern Natural	Shell Rock IA #1	3343
Northern Natural	Silver City IA #1	3269
Northern Natural	Sioux City IA #1A	518
Northern Natural	Sioux City IA #1C	2764
Northern Natural	Sloan IA #1	3345
Northern Natural	Stuart IA #1	3270
Northern Natural	Sutherland IA #1	3348
Northern Natural	Tama IA #1	2887
Northern Natural	Tea SD #1	57867
Northern Natural	Thor IA #1	3349
Northern Natural	Treynor IA #1	3271
Northern Natural	Underwood IA #1	3272
Northern Natural	Walnut IA #1	3273
Northern Natural	Washburn IA #1	3350
Northern Natural	Waterloo IA #1	1636
Northern Natural	Waterloo IA #1A	3351
Northern Natural	Waterloo IA #2	3352
Northern Natural	Waterloo IA #3	3357
Northern Natural	Waverly IA #1	3353
Northern Natural	Wesley IA #1	3134
Northern Natural	Whiting IA #1	3354
Northern Natural	Whiting IA #1	3354
Northern Natural	Yale IA #1	3135

Minnesota Energy Resources

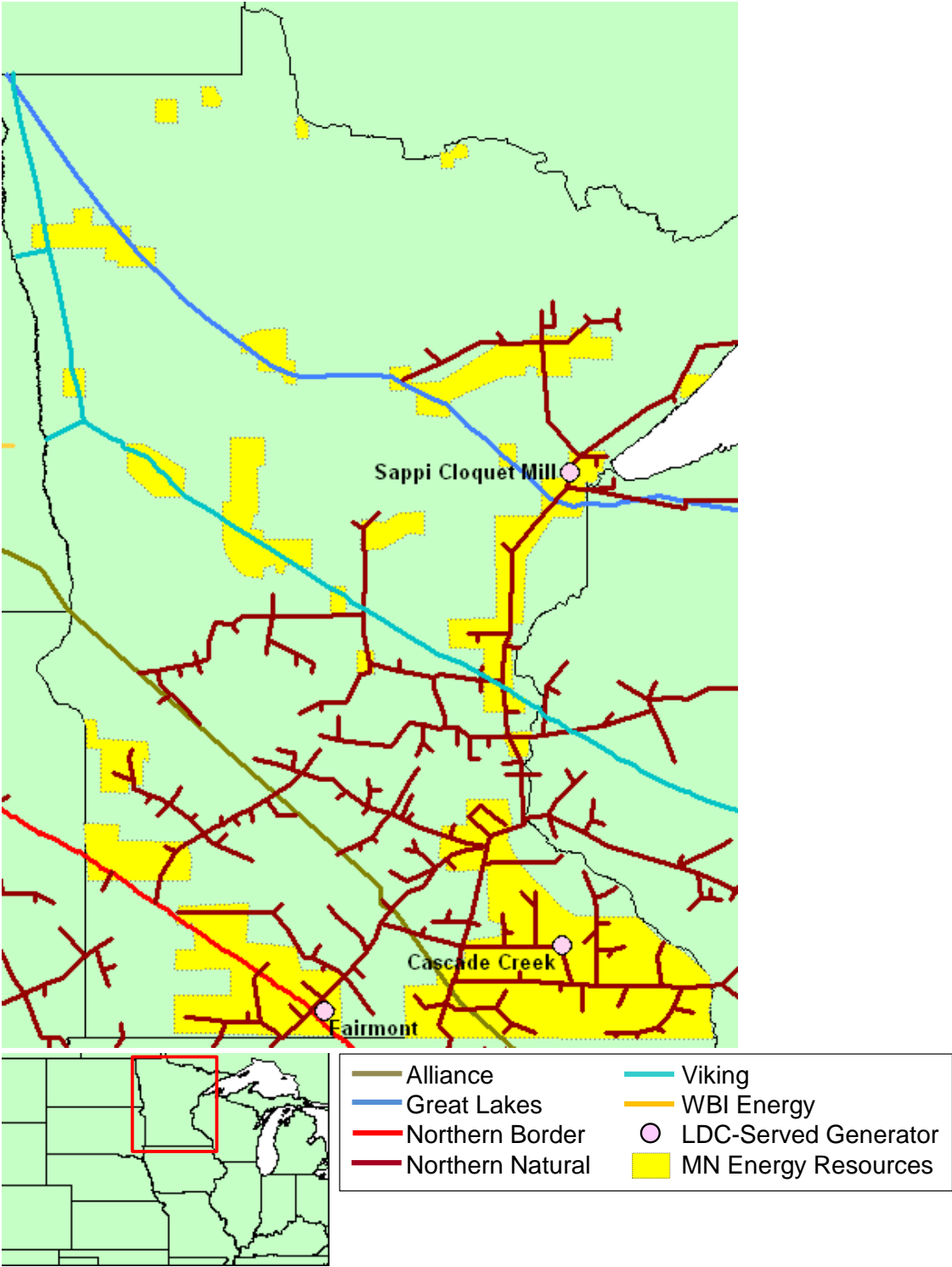


Figure A9-67. Minnesota Energy Resources Service Territory¹⁶

¹⁶ Previously known as Northern Minnesota Utilities.

Table A9-105. MISO North/Central Generators Served by Minnesota Energy Resources

Generator	Capacity (MW)
Cascade Creek	88.9
Fairmont	39
Sappi Cloquet Mill	22

Table A9-106. Minnesota Energy Resources Citygate Meters

Pipeline	Meter Name	Meter Number
Great Lakes	Solway	293837
Great Lakes	Cloquet	11847
Great Lakes	Thief River Falls	11983
Great Lakes	Mayfield	295154
Great Lakes	Bemidji	11819
Great Lakes	Grace Lake	216502
Great Lakes	Deer River	48928
Great Lakes	Grand Rapids NMU	11903
Great Lakes	Floodwood	132784
Northern Natural	Zone E-F-MERC	N/A
Northern Natural	Alden MN #1	3832
Northern Natural	Altura MN #1	52640
Northern Natural	Appleton MN #1	3833
Northern Natural	Aurora MN #1	3548
Northern Natural	Barnum MN #1	3549
Northern Natural	Biwabik MN #1	3550
Northern Natural	Blooming Prairie MN #1	3835
Northern Natural	Brewster MN #1	56194
Northern Natural	Brownsdale MN #1	3836
Northern Natural	Buhl MN #1	3551
Northern Natural	Byron MN #1	3837
Northern Natural	Caledonia MN #1	3839
Northern Natural	Cannon Falls MN #1	2843
Northern Natural	Canton MN #1	3840
Northern Natural	Carlton MN #1	3552
Northern Natural	Chatfield MN #1	3841
Northern Natural	Chisholm MN #1	3553
Northern Natural	Claremont MN #1	3842
Northern Natural	Cloquet MN #1	3554
Northern Natural	Coleraine MN #1	3555
Northern Natural	Cottonwood MN #1	3843
Northern Natural	Crosby MN #1	3556
Northern Natural	Deerwood MN #1	3558
Northern Natural	Dodge Center MN #1	3844
Northern Natural	Dover MN #1	3845

Pipeline	Meter Name	Meter Number
Northern Natural	Dunnell MN #1	3846
Northern Natural	Eagan MN #1	2855
Northern Natural	Eagan MN #1A	2856
Northern Natural	Eagan MN #1B	2857
Northern Natural	Eagan MN #6	25079
Northern Natural	Elgin MN #1	3847
Northern Natural	Ellendale MN #1	3848
Northern Natural	Emmons IA #1	12940
Northern Natural	Emmons MN #2	12941
Northern Natural	Empire Waste Water Treatment Plant	78409
Northern Natural	Eveleth MN #1	3559
Northern Natural	Eyota MN #1	3849
Northern Natural	Fairmont MN #1	2883
Northern Natural	Farmington MN #1	2858
Northern Natural	Farmington MN #1B	3851
Northern Natural	Farmington MN #1C	12942
Northern Natural	Finlayson MN #1	3852
Northern Natural	Fountain MN #1	56245
Northern Natural	Freeborn MN #1	56195
Northern Natural	Gilbert MN #1	3560
Northern Natural	Harmony MN #1	3853
Northern Natural	Harris MN #1	3854
Northern Natural	Hayfield MN #1	3855
Northern Natural	Hayward MN #1	3856
Northern Natural	Hermantown MN #1	25292
Northern Natural	Hinckley MN #1	3859
Northern Natural	Houston MN #1	3860
Northern Natural	Hoyt Lakes MN #1	3861
Northern Natural	Inland Steel #1	2248
Northern Natural	Ivanhoe MN #1	55888
Northern Natural	Jackson MN #1	3862
Northern Natural	Kasson MN #1	3863
Northern Natural	Keewatin MN #1	3562
Northern Natural	Kenyon MN #1	3865
Northern Natural	Kettle River MN #1	3564
Northern Natural	La Crescent MN #1	3866
Northern Natural	Lac Qui Parle Valley School MN #2	52787
Northern Natural	Lake Byllesby MN #1	52644
Northern Natural	Lakefield MN #1	3867
Northern Natural	Lakeville MN #1A	2844
Northern Natural	Lakeville MN #1B	78471
Northern Natural	Lamberton MN #1	3868
Northern Natural	Lanesboro MN #1	3869

Pipeline	Meter Name	Meter Number
Northern Natural	Lansing MN #1	3870
Northern Natural	Lewiston MN #1	3871
Northern Natural	Mabel MN #1	3872
Northern Natural	Madison MN #1	3873
Northern Natural	Marble MN #1	3565
Northern Natural	Moose Lake MN #1	3566
Northern Natural	Mora MN #1	3875
Northern Natural	Mora MN #1A	3876
Northern Natural	Mountain Iron MN #1	3567
Northern Natural	Mountain Iron MN #1A	3568
Northern Natural	Mountain Lake MN #1	2851
Northern Natural	Nashwauk MN #1	3569
Northern Natural	National Steel Pellet Co	2345
Northern Natural	New Market MN #1	3877
Northern Natural	New Richland MN #1	3878
Northern Natural	North Branch MN #1	3879
Northern Natural	Northrop MN #1	52641
Northern Natural	Oakland MN #1	3880
Northern Natural	Pengilly MN #1	3570
Northern Natural	Peterson MN #1	55892
Northern Natural	Pine City MN #1	3881
Northern Natural	Pine City MN #1A	3882
Northern Natural	Pine Island MN #1	2846
Northern Natural	Plainview MN #1	2845
Northern Natural	Preston MN #1	2847
Northern Natural	Proctor MN #1	3571
Northern Natural	Revere MN #1	3883
Northern Natural	Rochester MN #1B	2848
Northern Natural	Rochester MN #1D	62984
Northern Natural	Rosemount MN #1A	3885
Northern Natural	Rosemount MN #1C	2242
Northern Natural	Rosemount MN #4	17102
Northern Natural	Rush City MN #1	3886
Northern Natural	Rushford MN #1	3887
Northern Natural	Sanborn MN #1	3889
Northern Natural	Sandstone MN #1	3890
Northern Natural	Sherburn MN #1	3891
Northern Natural	Sherburn MN #2	12954
Northern Natural	Sherwood Forest MN	55891
Northern Natural	Shore Acres MN #1	57510
Northern Natural	Sil Laskin TBS	78363
Northern Natural	Silver Bay MN #1	3573
Northern Natural	Spring Grove MN #1	3892

Pipeline	Meter Name	Meter Number
Northern Natural	Spring Valley MN #1	3893
Northern Natural	Springlake MN	55644
Northern Natural	St Charles MN #1	3888
Northern Natural	Stewartville MN #1	3894
Northern Natural	Stewartville MN #2	3895
Northern Natural	Tracy MN #1	3896
Northern Natural	Trimont MN #1	3897
Northern Natural	Truman MN #1	3898
Northern Natural	Twin City Silica MN	22123
Northern Natural	Twin Lakes MN #1	3900
Northern Natural	Utica MN #1	3901
Northern Natural	Viola MN #1	3902
Northern Natural	Walnut Grove MN #1	3903
Northern Natural	Waltham MN #1	3904
Northern Natural	Wanamingo MN #1	2849
Northern Natural	Welcome MN #1	3905
Northern Natural	Wells MN #1	2852
Northern Natural	West Concord MN #1	3906
Northern Natural	Willow River MN #1	3907
Northern Natural	Wilpen MN #1	60592
Northern Natural	Windom MN #1	2853
Northern Natural	Worthington MN #1	2854
Northern Natural	Zumbrota MN #1	2850
Viking	Thief River Falls	11998
Viking	Ada	11975
Viking	Audubon	11816
Viking	Detroit Lakes	11818
Viking	Frazee	11977
Viking	Wadena	11982
Viking	Bertha	12027
Viking	Staples	12028
Viking	Camp Ripley	288038

Montana-Dakota Utilities (MDU Resources Group)

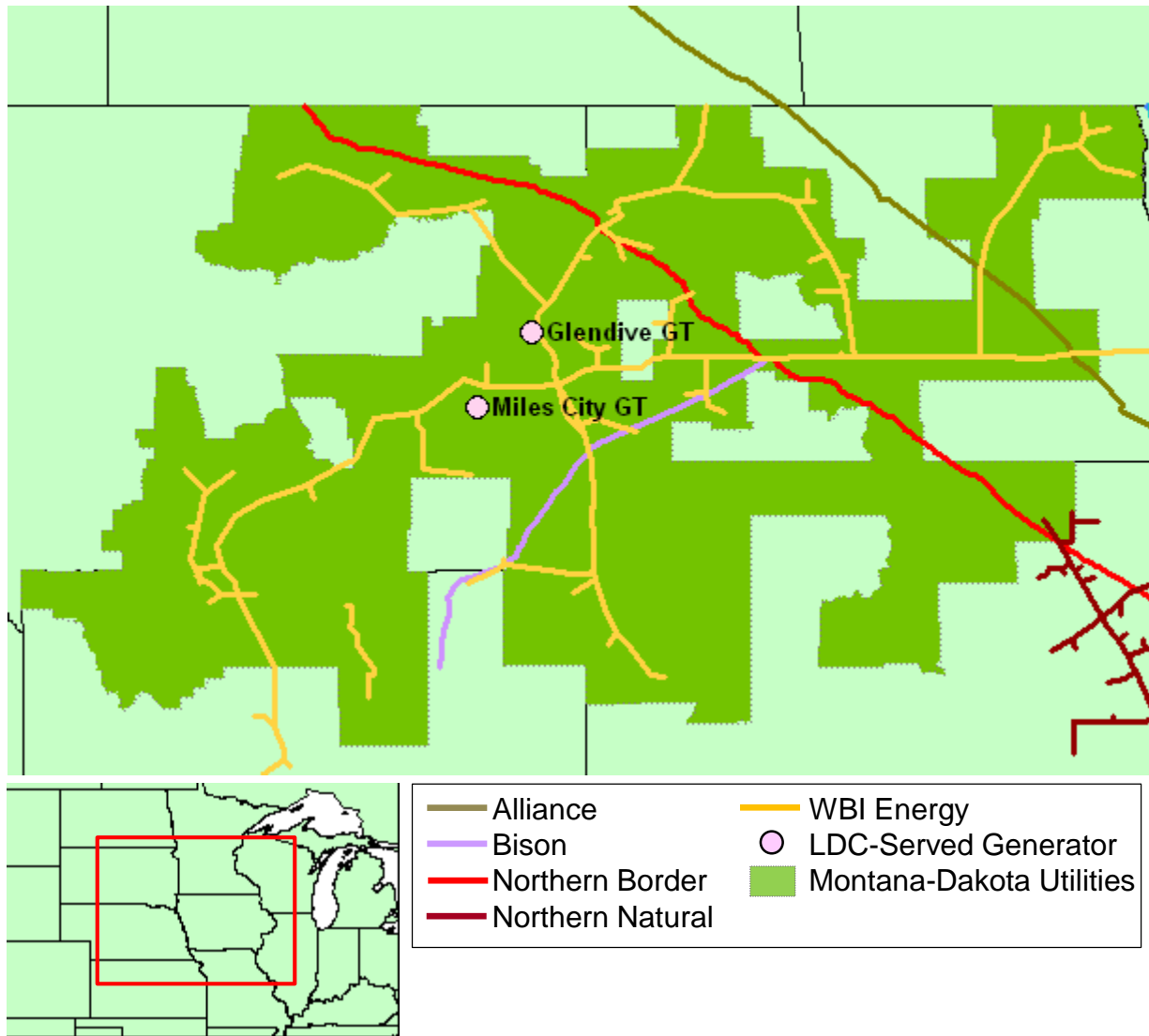


Figure A9-68. Montana-Dakota Utilities Service Territory

Table A9-107. MISO North/Central Generators Served by Montana-Dakota

Generator	Capacity (MW)
Glendive	75
Miles City	25

Table A9-108. Montana-Dakota Citygate Meters

Pipeline	Meter Name	Meter Number
Alliance	Hankinson (ND07)	HANSL
WBI Energy	MDU-Tran.Line(26)MTZ41	1012
WBI Energy	MDU-Tran.Line(26)MTZ39	1013
WBI Energy	MDU-Malta Border	1070
WBI Energy	MDU-Whitewater Border	1080
WBI Energy	MDU-Hinsdale Border	1120
WBI Energy	MDU-St. Marie Border	1130
WBI Energy	MDU-Glasgow Border	1140
WBI Energy	MDU-Fort Peck Border	1150
WBI Energy	MDU-Tran.Line(08)MTZ22	1155
WBI Energy	MDU-Nashua Border	1160
WBI Energy	MDU-Frazer Border	1170
WBI Energy	MDU-Wolf Point Border	1180
WBI Energy	MDU-Poplar Border	1190
WBI Energy	MDU-Tran.Line(09)MTZ22	1195
WBI Energy	MDU-Richey Border	1200
WBI Energy	MDU-Tran.Line(10)MTZ22	1205
WBI Energy	MDU-Glendive Border	1220
WBI Energy	MDU-Tran.Line(05)MTZ20	1245
WBI Energy	MDU-Savage Border	1250
WBI Energy	MDU-Sidney Lewis & Clark Stat.	1260
WBI Energy	MDU-Sidney Sidney Sugars	1270
WBI Energy	MDU-Sidney Border	1280
WBI Energy	MDU-Fairview Border	1300
WBI Energy	MDU-Watford City East Border	1312
WBI Energy	MDU-Watford City Border	1320
WBI Energy	MDU-Arnegard Border	1350
WBI Energy	MDU-Alexander Border	1360
WBI Energy	MDU-Trenton Border	1390
WBI Energy	MDU-Williston Border	1410
WBI Energy	MDU-Williston East Border	1431
WBI Energy	MDU-Williston Industrial Maste	1435
WBI Energy	MDU-Epping Border	1450
WBI Energy	MDU-Ray Border	1460
WBI Energy	MDU-Tioga Border	1470
WBI Energy	MDU-Lignite Border	1475
WBI Energy	MDU-Tran.Line(06)MTZ241	1479
WBI Energy	MDU-Tran.Line(06)MTZ212	1484
WBI Energy	MDU-Tran.Line(06)MTZ211	1485
WBI Energy	MDU-Tran.Line(06)NDZ25	1486
WBI Energy	MDU-Tran.Line(06)NDZ24	1488
WBI Energy	MDU-Tran.Line(25)NDZ263	1489

Pipeline	Meter Name	Meter Number
WBI Energy	MDU-White Earth Border	1490
WBI Energy	MDU-Tran.Line(06)NDZ241	1491
WBI Energy	MDU-Ross Border	1500
WBI Energy	MDU-Stanley Border	1510
WBI Energy	MDU-Palermo Border	1520
WBI Energy	MDU-Berthold Border	1530
WBI Energy	MDU-Des Lacs Border	1540
WBI Energy	MDU-Minot Border	1550
WBI Energy	MDU-Ruthville Border	1570
WBI Energy	MDU-Minot A.F.B.	1580
WBI Energy	MDU-Burlington Border	1600
WBI Energy	MDU-Prairie View Hgts Master	1610
WBI Energy	MDU-Max Border	1620
WBI Energy	MDU-Garrison Border	1630
WBI Energy	MDU-Turtle Lake Border	1640
WBI Energy	MDU-Underwood Border	1650
WBI Energy	MDU-Riverdale Border	1660
WBI Energy	MDU-Washburn Border	1670
WBI Energy	MDU-Wilton Border	1680
WBI Energy	MDU-Tran.Line(07)NDZ261	1685
WBI Energy	MDU-Tran.Line(07)NDZ262	1686
WBI Energy	MDU-Tran.Line(07)NDZ264	1689
WBI Energy	MDU-Apple Valley Border	1690
WBI Energy	MDU-Steele Border	1700
WBI Energy	MDU-Dawson Border	1710
WBI Energy	MDU-Tappen Border	1720
WBI Energy	MDU-Medina Border	1730
WBI Energy	MDU-Tran.Line(03)NDZ271	1735
WBI Energy	MDU-Cleveland Border	1740
WBI Energy	MDU-Windsor Staloch Farms	1745
WBI Energy	MDU-Jamestown Border	1760
WBI Energy	MDU-Eldridge Klose Elevator	1761
WBI Energy	MDU-Jamestown Gavilon Grain	1762
WBI Energy	MDU-Jamestown ND State Hosp	1765
WBI Energy	MDU-Spiritwood Ladish Malting	1770
WBI Energy	MDU-Sanborn Border	1780
WBI Energy	MDU-Valley City Peavey Master	1789
WBI Energy	MDU-Valley City Border	1790
WBI Energy	MDU-Tran.Line(24)NDZ272	1791
WBI Energy	MDU-Carrington Border	1800
WBI Energy	MDU-New Rockford Border	1810
WBI Energy	MDU-Barlow Barlow Elevator	1811
WBI Energy	MDU-Sheyenne Border	1820

Pipeline	Meter Name	Meter Number
WBI Energy	MDU-Fort Totten Border	1830
WBI Energy	MDU-Devils Lake Border	1840
WBI Energy	MDU-M.S.R.	1850
WBI Energy	MDU-Langdon Border	1860
WBI Energy	MDU-Park River Border	1870
WBI Energy	MDU-Grafton Border	1880
WBI Energy	MDU-P.A.R. Housing	1889
WBI Energy	MDU-P.A.R. Turbine	1890
WBI Energy	MDU-Walhalla Border	1910
WBI Energy	MDU-Cavalier Border	1930
WBI Energy	MDU-Tran.Line(04)NDZ273	1935
WBI Energy	MDU-Harmon Farms	1939
WBI Energy	MDU-Bismarck Border	1960
WBI Energy	MDU-Mandan Border	1970
WBI Energy	MDU-Mandan Tesoro Refinery	2000
WBI Energy	MDU-New Salem Border	2010
WBI Energy	MDU-Glen Ullin Border	2020
WBI Energy	MDU-Hebron Border	2030
WBI Energy	MDU-Richardton Border	2040
WBI Energy	MDU-Taylor Border	2050
WBI Energy	MDU-Mott Border	2060
WBI Energy	MDU-Regent Border	2070
WBI Energy	MDU-New England Border	2080
WBI Energy	MDU-Lefor Border	2090
WBI Energy	MDU-Gladstone Border	2100
WBI Energy	MDU-Tran.Line(02)NDZ311	2114
WBI Energy	MDU-Tran.Line(02)NDZ31	2115
WBI Energy	MDU-Tran.Line(02)NDZ28	2116
WBI Energy	MDU-Dickinson Border	2120
WBI Energy	MDU-South Heart Border	2130
WBI Energy	MDU-South Heart GTL Energy	2134
WBI Energy	MDU-Killdeer Border	2140
WBI Energy	MDU-Belfield Border	2150
WBI Energy	MDU-Sentinel Butte Border	2160
WBI Energy	MDU-Beach Border	2170
WBI Energy	MDU-Golva Border	2180
WBI Energy	MDU-Wibaux Border	2185
WBI Energy	MDU-Tran.Line(01)MTZ32	2187
WBI Energy	MDU-Tran.Line(01)NDZ32	2188
WBI Energy	MDU-Tran.Line(01)NDZ31	2189
WBI Energy	MDU-Worland Wyoming Sugar	3520
WBI Energy	MDU-Tran.Line(19)WYZ3	3524
WBI Energy	MDU-Greybull WyoBen	3560

Pipeline	Meter Name	Meter Number
WBI Energy	MDU-Himes Georgia Pacific	3570
WBI Energy	MDU-Tran.Line(20)WYZ4	3575
WBI Energy	MDU-Lovell Border	3580
WBI Energy	MDU-Lovell Western Sugar	3590
WBI Energy	MDU-Lovell WyoBen	3595
WBI Energy	MDU-Cowley Border	3600
WBI Energy	MDU-Powell Border	3640
WBI Energy	MDU-Tran.Line(21)WYZ6	3685
WBI Energy	MDU-Tran.Line(21)WYZ7	3686
WBI Energy	MDU-Belfry Border	3690
WBI Energy	MDU-Bridger Border	3700
WBI Energy	MDU-Fromberg Border	3710
WBI Energy	MDU-Edgar Border	3720
WBI Energy	MDU-Joliet Border	3730
WBI Energy	MDU-Silesia Border	3740
WBI Energy	MDU-Rockvale Border	3750
WBI Energy	MDU-Krug Master	3753
WBI Energy	MDU-Slaughterhouse Road Master	3755
WBI Energy	MDU-Laurel CHS Refinery	3770
WBI Energy	MDU-Laurel Border	3780
WBI Energy	MDU-Billings Border	3820
WBI Energy	MDU-Billings JTL Group Inc.	3871
WBI Energy	MDU-Tran.Line(22)MTZ10	3875
WBI Energy	MDU-Tran.Line(22)MTZ11	3876
WBI Energy	MDU-Tran.Line(22)MTZ12	3877
WBI Energy	MDU-Tran.Line(22)MTZ13	3878
WBI Energy	MDU-Crow Agency Border	3880
WBI Energy	MDU-Tran.Line(17)MTZ152	3883
WBI Energy	MDU-Pryor Border	3890
WBI Energy	MDU-Hardin Industrial	3895
WBI Energy	MDU-Hardin Border	3900
WBI Energy	MDU-Tran.Line(18)MTZ142	3901
WBI Energy	MDU-Tran.Line(18)MTZ14	3903
WBI Energy	MDU-Tran.Line(18)WYZ141	3904
WBI Energy	MDU-Tran.Line(18)MTZ151	3906
WBI Energy	MDU-Forsyth Border	3910
WBI Energy	MDU-Rosebud Border	3920
WBI Energy	MDU-Tran.Line(17)MTZ15	3925
WBI Energy	MDU-Miles City Border	3930
WBI Energy	MDU-Terry Border	3960
WBI Energy	MDU-Isamay Border	3970
WBI Energy	MDU-Tran.Line(16)MTZ16	3980
WBI Energy	MDU-Baker Border	5110

Pipeline	Meter Name	Meter Number
WBI Energy	MDU-Field Line(11)MTZ19	5114
WBI Energy	MDU-Tran.Line(11)MTZ18	5115
WBI Energy	MDU-Field Line(11)MTZ191	5116
WBI Energy	MDU-Marmarth Border	5120
WBI Energy	MDU-Rhame Border	5130
WBI Energy	MDU-Bowman Border	5150
WBI Energy	MDU-Field Line(12)MTZ18	5153
WBI Energy	MDU-Tran.Line(12)NDZ34	5156
WBI Energy	MDU-Encore Master	5157
WBI Energy	MDU-Camp Crook Border	5170
WBI Energy	MDU-Tran.Line(13)SDZ36	5175
WBI Energy	MDU-Belle Creek Field	5190
WBI Energy	MDU-Tran.Line(14)MTZ17	5195
WBI Energy	MDU-Colony Am. Col. West	5200
WBI Energy	MDU-Colony Bentonite Corp.	5204
WBI Energy	MDU-Belle Fourche Am. Col.	5210
WBI Energy	MDU-Belle Fourche New Gen Feed	5215
WBI Energy	MDU-Belle Fourche Border	5220
WBI Energy	MDU-Spearfish Border	5230
WBI Energy	MDU-St. Onge Border	5250
WBI Energy	MDU-Spearfish Centen. Quarry	5255
WBI Energy	MDU-Deadwood Border	5260
WBI Energy	MDU-Lead Border	5270
WBI Energy	MDU-Whitewood Border	5280
WBI Energy	MDU-Whitewood Wheeler	5290
WBI Energy	MDU-Skelly Master	5300
WBI Energy	MDU-Sturgis Border	5310
WBI Energy	MDU-Pine Acres Master	5320
WBI Energy	MDU-Fort Meade Housing	5330
WBI Energy	MDU-Fort Meade Hospital	5340
WBI Energy	MDU-Black Hawk Border	5370
WBI Energy	MDU-Rapid City Dacotah Cement	5430
WBI Energy	MDU-Rapid City Pete Lien	5433
WBI Energy	MDU-Rapid City Border	5450
WBI Energy	MDU-Tran.Line(15)WYZ37	5515
WBI Energy	MDU-Tran.Line(15)SDZ37	5516
WBI Energy	MDU-Kaycee Border	5520
WBI Energy	MDU-Buffalo Border	5530
WBI Energy	MDU-Sheridan Border	5540
WBI Energy	MDU-Tran.Line(23)WYZ91	5545
WBI Energy	MDU-Tran.Line(23)WYZ8	5546

Northern Indiana Public Service

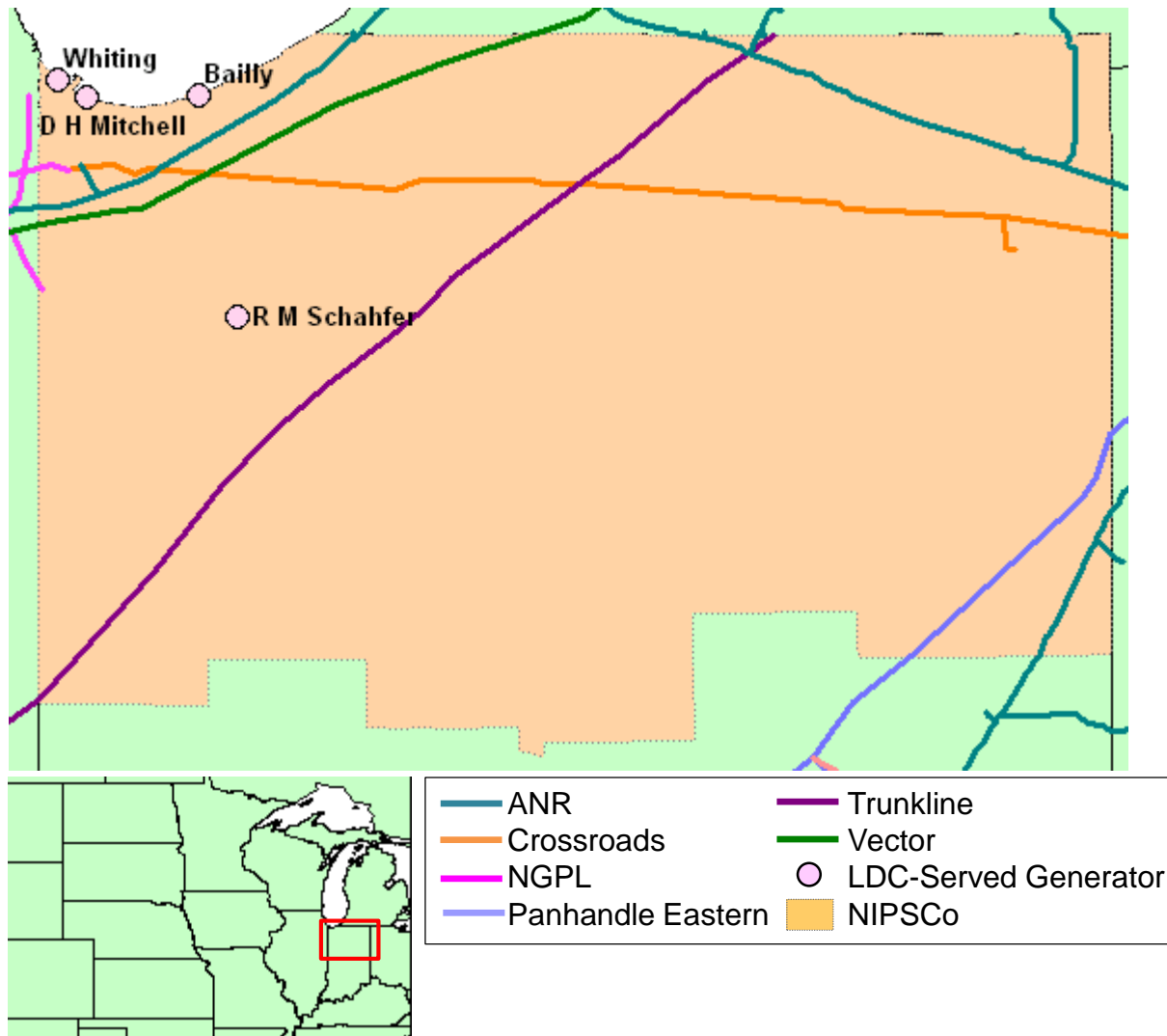


Figure A9-69. Northern Indiana Public Service Service Territory

Table A9-109. MISO North/Central Generators Served by Northern Indiana Public Service

Generator	Capacity (MW)
Bailly	31
D H Mitchell	17
R M Schahfer	155
Whiting Clean Energy	525

Table A9-110. Northern Indiana Public Service Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	NIPSCO - Group 1	139235
ANR	NIPSCO - Group 2	139366
ANR	NIPSCO - Group 3	139385
Crossroads	Griffith	736903
Crossroads	Butler	736908
Midwestern	Sugar Creek	322225
NGPL	NIPSCO / NGPL Hegewisch Cook	4186
NGPL	NIPSCO / NGPL Lansing Cook	4187
NGPL	NIPSCO / NGPL 134th St Cook	4189
NGPL	NIPSCO / NGPL North Hayden Kankakee	900130
NGPL	NIPSCO / NGPL 112th St Cook	904193
NGPL	NIPSCO / NGPL CDP	909260
Panhandle Eastern	NIPSCO	NIPS
Trunkline	Northern Indiana Public Service	TRKNI
Vector	Crown Point	285077
Vector	La Porte	287417

Owatonna Public Utilities (Municipal)

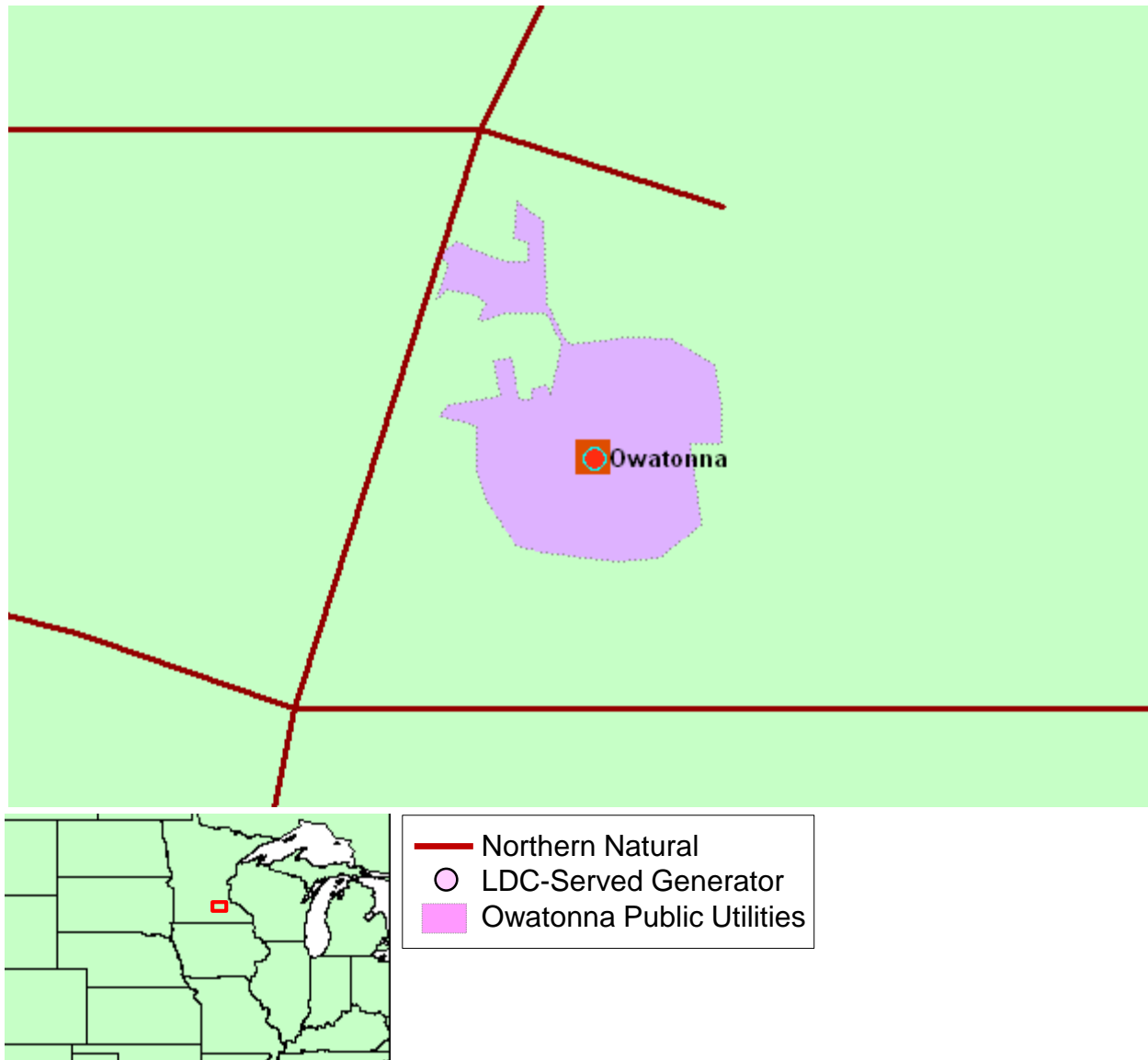


Figure A9-70. Owatonna Public Utilities Service Territory

Table A9-111. MISO North/Central Generators Served by Owatonna Public Utilities

Generator	Capacity (MW)
Owatonna	20

Table A9-112. Owatonna Public Utilities Citygate Meters

Pipeline	Meter Name	Meter Number
Northern Natural	Zone E-F-Owatonna	N/A
Northern Natural	Owatonna MN #1	4081
Northern Natural	Owatonna MN #1A	26073

SEMCO Energy Gas

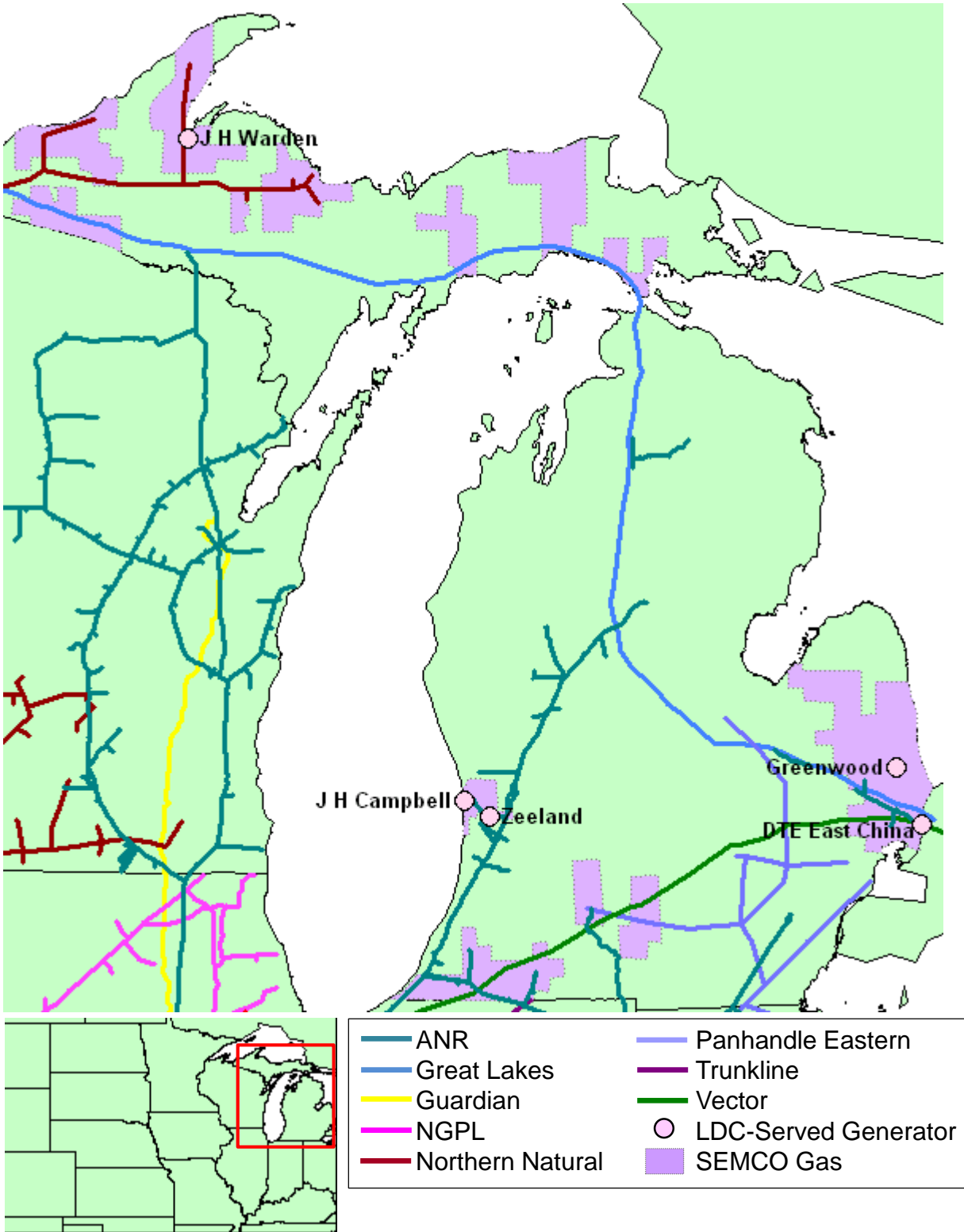


Figure A9-71. SEMCO Gas Service Territory

Table A9-113. MISO North/Central Generators Served by SEMCO Gas

Generator	Capacity (MW)
DTE East China	384
Greenwood	1,064
J H Campbell	21
J H Warden	18
Zeeland	1,247

Table A9-114. SEMCO Gas Citygate Meters¹⁷

Pipeline	Meter Name	Meter Number
ANR	SEM Gas - Grp 1	139249
Great Lakes	St. Ignace	11691
Great Lakes	Engadine	40860
Great Lakes	Manistique	11786
Great Lakes	Watersmeet	169660
Great Lakes	Bauman	132789
Great Lakes	China Township	293839
Northern Natural	Zone E-F-SEMCO	N/A
Northern Natural	Baraga MI #1	3732
Northern Natural	Bruce Crossing MI #1	25289
Northern Natural	Calumet MI #1	4076
Northern Natural	Chassel MI #1	3733
Northern Natural	Hancock MI #1	3734
Northern Natural	Hancock MI #2	3735
Northern Natural	Houghton MI #1	3190
Northern Natural	Ishpeming MI #1	3736
Northern Natural	Lake Linden MI #1	4078
Northern Natural	Lanse MI #1	2771
Northern Natural	Marquette MI #1	2772
Northern Natural	Marquette MI #1A	2773
Northern Natural	Marquette MI #1B	25290
Northern Natural	Negaunee MI #1	3737
Northern Natural	Ontonagon MI #1	3191
Northern Natural	Palmer MI #1	3738
Northern Natural	Silver City MI #1	3739
Northern Natural	White Pine Copper	3740
Panhandle Eastern	SEMCO Energy Gas Db a SEMCO Energy Gas	SEMIC

¹⁷ SEMCO Gas also receives gas via the DTE Gas distribution system.

Terrebonne Parish (Municipal)

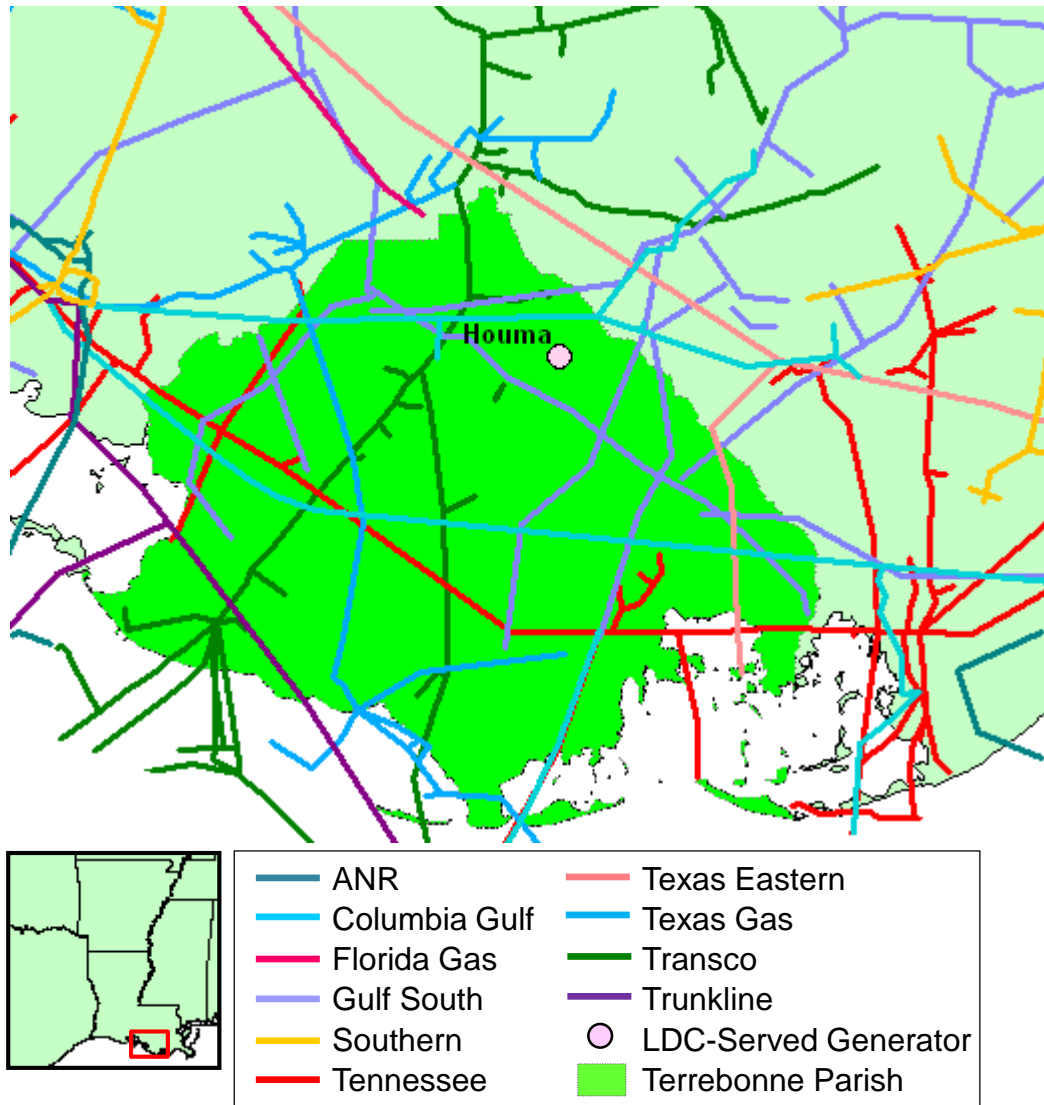


Figure A9-72. Terrebonne Parish Service Territory

Table A9-115. MISO South Generators Served by Terrebonne Parish

Generator	Capacity (MW)
Houma	77

Table A9-116. Terrebonne Parish Citygate Meters

Pipeline	Meter Name	Meter Number
Gulf South	Terrebonne Consold Govt Aggregate	022562

Vectren Energy Delivery of Indiana

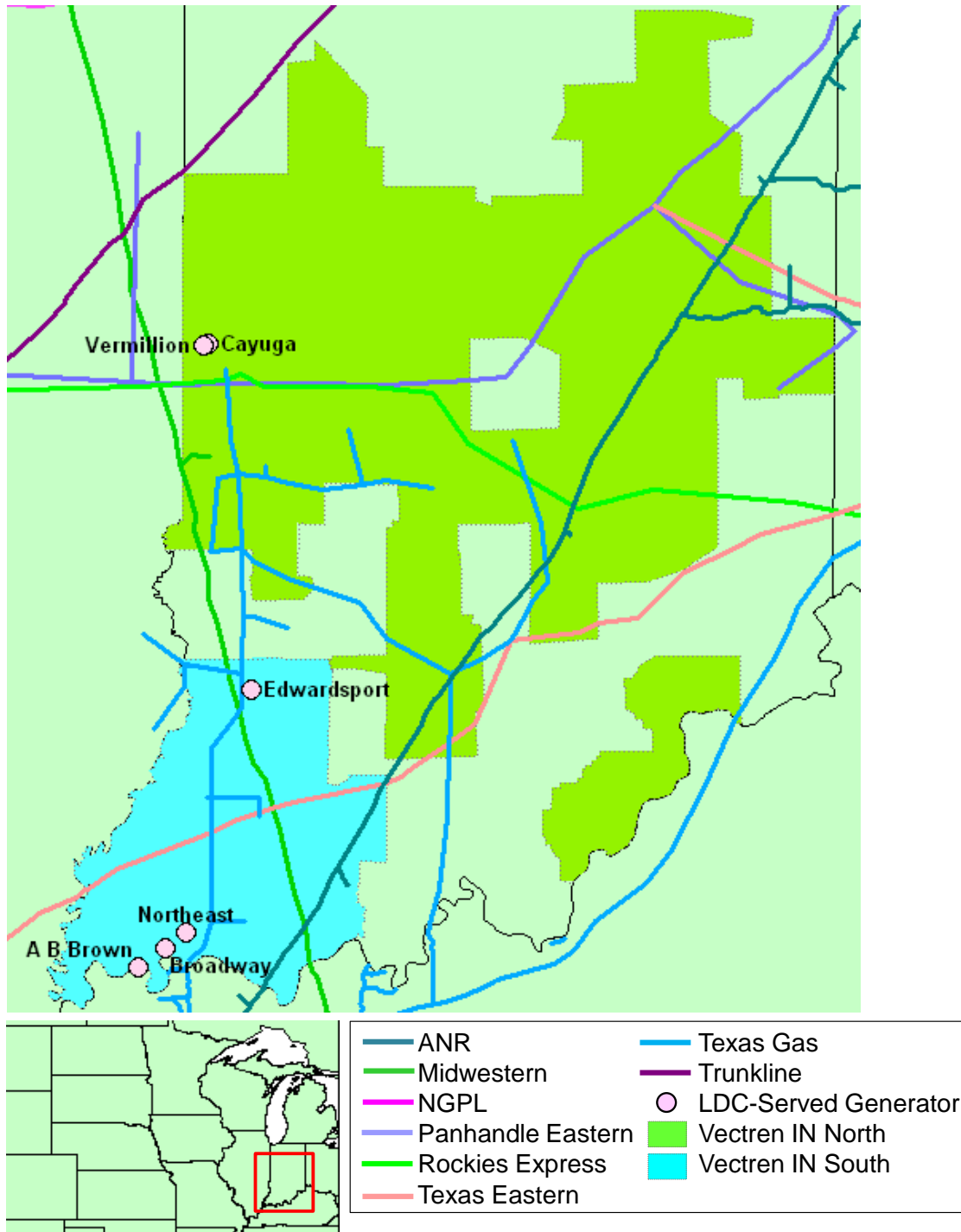


Figure A9-73. Vectren Indiana Gas Service Territory¹⁸

¹⁸ Vectren Energy Delivery of Indiana (North) is the former service territory of the Indiana Gas Company. Vectren Energy Delivery of Indiana (South) is the former service territory of the Southern Indiana Gas and Electric Company.

Table A9-117. MISO North/Central Generators Served by Vectren Indiana

System	Generator	Capacity (MW)
South	A B Brown	174
South	Broadway	135
North	Cayuga	120
South	Edwardsport	795
South	Northeast	24
North	Vermillion	720

Table A9-118. Vectren Indiana Citygate Meters

System	Pipeline	Meter Name	Meter Number
North	ANR	Indiana Gs-Grp 1	139240
North	Panhandle Eastern	Indiana Gas - Cayuga	02825
North	Rockies Express	Vec IN/REX Decatur	44590
North	Texas Eastern	Indiana Gas - Greensburg, IN	70017
North	Texas Eastern	Indiana Gas - Seymour, IN	70018
North	Texas Eastern	Indiana Gas Co. - Westport, IN	70940
North	Texas Gas	Indiana Gas SLM Deduct	1558
North	Texas Gas	Indiana Gas HAB Deduct	1559
North	Texas Gas	Ind Gas (OPRL) Shipper De	1702
South	Midwestern	Sigeco	153635
South	Midwestern	Ohio Valley Hub	305591
South	Texas Eastern	S.I.G. & Elec -FT. Branch, IN	70539
South	Texas Eastern	SO. Ind. Gas & El. -Posey, IN	72648
South	Texas Gas	SIGECO South Deduct	1808
South	Texas Gas	SLIGO North Deduct	1809
South	Texas Gas	Vectren - Dogtown	9540

We Energies (Wisconsin Energy Corporation)

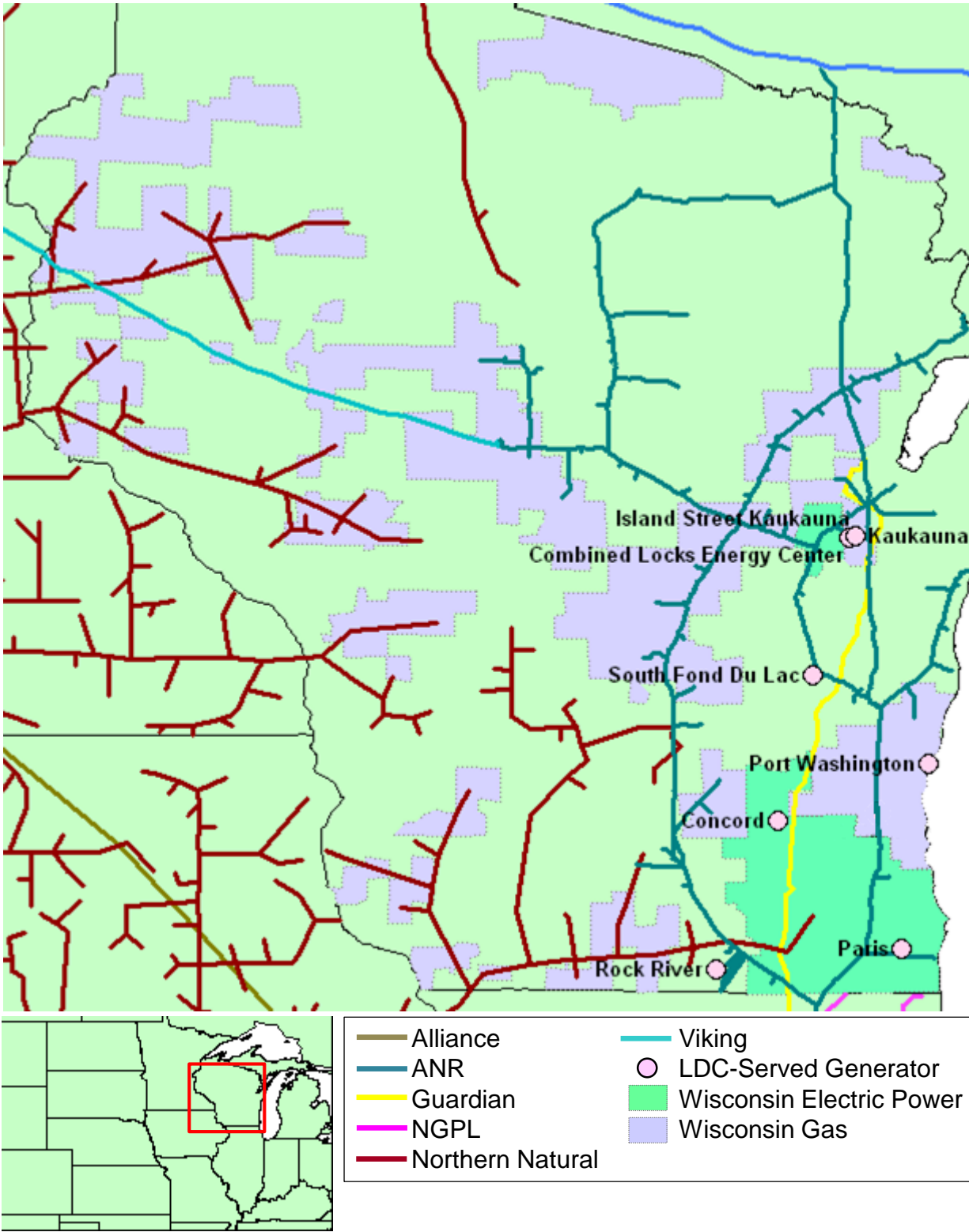


Figure A9-74. We Energies Service Territory

Table A9-119. MISO North/Central Generators Served by We Energies

System	Generator	Capacity (MW)
Wisconsin Electric Power	Concord	400
Wisconsin Electric Power	Paris	400
Wisconsin Electric Power	South Fond Du Lac	352
Wisconsin Gas	Combined Locks Energy Center	48
Wisconsin Gas	Island St. Kaukauna	61
Wisconsin Gas	Kaukauna	16
Wisconsin Gas	Port Washington	1,231
Wisconsin Gas	Rock River	160

Table A9-120. We Energies Citygate Meters

System	Pipeline	Meter Name	Meter Number
Wisconsin Electric Power	ANR	Wisc EPC-Grp 1	139256
Wisconsin Electric Power	Great Lakes	Duck Creek	245609
Wisconsin Electric Power	Guardian	Walworth	359493
Wisconsin Electric Power	Guardian	Rockvale	359488
Wisconsin Electric Power	NGPL	Wisc Ele / NGPL Genoa City #2 Mc Henr	900007
Wisconsin Electric Power	NGPL	Wisc Ele / NGPL Genoa City #1 Mc Henr	900008
Wisconsin Electric Power	NGPL	Wisc Ele / NGPL Kenosha	907112
Wisconsin Electric Power	NGPL	Wisc Ele / NGPL CDP	909294
Wisconsin Electric Power	Northern Natural	Zone D-Wisconsin Electric Power	N/A
Wisconsin Electric Power	Northern Natural	Bluff Creek - NNG - Wisconsin Elect	N/A
Wisconsin Electric Power	Northern Natural	Lima Gate WI	5533
Wisconsin Electric Power	Northern Natural	Whitewater WI #1 (Reliance Road)	78608
Wisconsin Gas	ANR	Wisc Gas-Grp 1	139255
Wisconsin Gas	Guardian	Bluff Creek WG	359490
Wisconsin Gas	Guardian	Ixonia	379832
Wisconsin Gas	Guardian	Rubicon	778098
Wisconsin Gas	Guardian	Fox Valley	778102
Wisconsin Gas	Northern Natural	Zone D-Wisconsin Gas	N/A
Wisconsin Gas	Northern Natural	Zone E-F-Wisconsin Gas	N/A
Wisconsin Gas	Northern Natural	Albany WI #1	3948
Wisconsin Gas	Northern Natural	Almena WI #1	3949
Wisconsin Gas	Northern Natural	Almena WI #1A	3950
Wisconsin Gas	Northern Natural	Amery WI #1	3951
Wisconsin Gas	Northern Natural	Arkansaw WI #1	3952
Wisconsin Gas	Northern Natural	Augusta WI #1	3953
Wisconsin Gas	Northern Natural	Avoca (Muscado) TBS #1	57848
Wisconsin Gas	Northern Natural	Baldwin WI #1	3954
Wisconsin Gas	Northern Natural	Balsam Lake WI #1	3955
Wisconsin Gas	Northern Natural	Bangor WI #1	3956
Wisconsin Gas	Northern Natural	Barron WI #1	3958

System	Pipeline	Meter Name	Meter Number
Wisconsin Gas	Northern Natural	Belleville WI #1	3959
Wisconsin Gas	Northern Natural	Black River Falls Master Meter	71439
Wisconsin Gas	Northern Natural	Black River Falls WI #1	3960
Wisconsin Gas	Northern Natural	Black River Falls WI #3	59196
Wisconsin Gas	Northern Natural	Black River Falls WI #4	25288
Wisconsin Gas	Northern Natural	Blair WI #1	3963
Wisconsin Gas	Northern Natural	Bloomer WI #1	3964
Wisconsin Gas	Northern Natural	Boscobel WI #1	3965
Wisconsin Gas	Northern Natural	Brodhead WI #1	3966
Wisconsin Gas	Northern Natural	Browntown WI #1	3967
Wisconsin Gas	Northern Natural	Bruce WI #1	3968
Wisconsin Gas	Northern Natural	Bruce WI #2	3969
Wisconsin Gas	Northern Natural	Cameron WI #1	3971
Wisconsin Gas	Northern Natural	Cashton WI #1	3972
Wisconsin Gas	Northern Natural	Centuria WI #1	3973
Wisconsin Gas	Northern Natural	Chetek WI #1	3974
Wisconsin Gas	Northern Natural	Clayton WI #1	3975
Wisconsin Gas	Northern Natural	Clear Lake WI #1	3976
Wisconsin Gas	Northern Natural	Cuba City WI #1	3977
Wisconsin Gas	Northern Natural	Cumberland WI #1	3980
Wisconsin Gas	Northern Natural	Dickeyville(Cuba City) TBS #1A	57849
Wisconsin Gas	Northern Natural	Durand WI #1	3981
Wisconsin Gas	Northern Natural	Ellsworth WI #1	3982
Wisconsin Gas	Northern Natural	Elmwood WI #1	3983
Wisconsin Gas	Northern Natural	Evansville WI #1	3984
Wisconsin Gas	Northern Natural	Fennimore WI #1	3985
Wisconsin Gas	Northern Natural	Frederic Master Meter	71255
Wisconsin Gas	Northern Natural	Frederic WI #1	3987
Wisconsin Gas	Northern Natural	Ft. McCoy WI #2	60697
Wisconsin Gas	Northern Natural	Grantsburg WI #1	56191
Wisconsin Gas	Northern Natural	Hager City WI #1	3362
Wisconsin Gas	Northern Natural	Hixton WI #1	3988
Wisconsin Gas	Northern Natural	Ladysmith Master Meter	71254
Wisconsin Gas	Northern Natural	Ladysmith WI #1	3991
Wisconsin Gas	Northern Natural	Lancaster WI #1	3990
Wisconsin Gas	Northern Natural	Luck WI #1	3992
Wisconsin Gas	Northern Natural	Milltown WI #1	3993
Wisconsin Gas	Northern Natural	Monroe Master Meter	71419
Wisconsin Gas	Northern Natural	Monroe WI #1	1750
Wisconsin Gas	Northern Natural	Monticello WI #1	3997
Wisconsin Gas	Northern Natural	Mount Hope WI #1	61875
Wisconsin Gas	Northern Natural	Muscoda WI #1	3998
Wisconsin Gas	Northern Natural	New Auburn WI #1	3999

System	Pipeline	Meter Name	Meter Number
Wisconsin Gas	Northern Natural	New Glarus WI #1	4000
Wisconsin Gas	Northern Natural	Osceola WI #1	4001
Wisconsin Gas	Northern Natural	Osseo WI #1	4002
Wisconsin Gas	Northern Natural	Pigeon Falls WI #1	4003
Wisconsin Gas	Northern Natural	Plum City WI #1	4004
Wisconsin Gas	Northern Natural	Rice Lake WI #1	4005
Wisconsin Gas	Northern Natural	Richland Center Master Meter	78170
Wisconsin Gas	Northern Natural	Richland Cntr WI #1	4007
Wisconsin Gas	Northern Natural	Shullsburg WI #1	4015
Wisconsin Gas	Northern Natural	Sparta WI #1	4017
Wisconsin Gas	Northern Natural	Spring Valley WI #1	4018
Wisconsin Gas	Northern Natural	Spring Valley WI #2	57851
Wisconsin Gas	Northern Natural	St Croix Falls WI #1	4013
Wisconsin Gas	Northern Natural	Star Prairie WI #1	4019
Wisconsin Gas	Northern Natural	Taylor WI #1	4020
Wisconsin Gas	Northern Natural	Tomah Master Meter	71253
Wisconsin Gas	Northern Natural	Tomah WI #1	4021
Wisconsin Gas	Northern Natural	Tunnel City WI #1	4022
Wisconsin Gas	Northern Natural	Turtle Lake WI #1	4008
Wisconsin Gas	Northern Natural	West Salem WI #1	4009
Wisconsin Gas	Northern Natural	Weyerhauser #1	4010
Wisconsin Gas	Northern Natural	Wisconsin Gas/NNG-Walworth (Bluff C	N/A
Wisconsin Gas	Viking	Dresser	28789
Wisconsin Gas	Viking	Blackbrook	288050
Wisconsin Gas	Viking	Boyceville	28689
Wisconsin Gas	Viking	Wheeler	362793
Wisconsin Gas	Viking	South Colfax	28692
Wisconsin Gas	Viking	Cadott	28694
Wisconsin Gas	Viking	Greenwood	28667
Wisconsin Gas	Viking	Chili	288047
Wisconsin Gas	Viking	Wisc Gas Marshfield	288051

Wisconsin Public Service Corporation

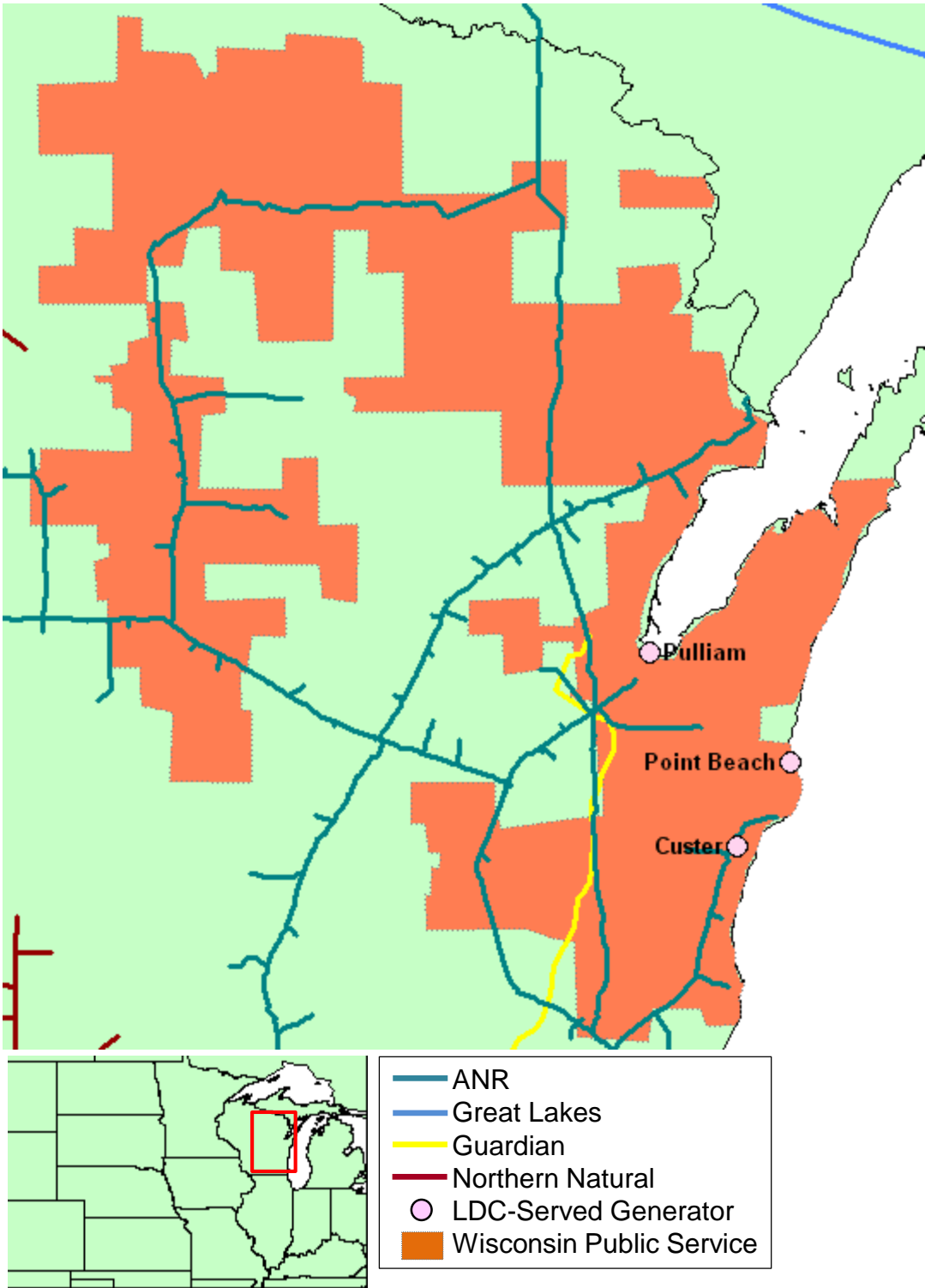


Figure A9-75. Wisconsin Public Service Service Territory

Table A9-121. MISO North/Central Generators Served by Wisconsin Public Service

Generator	Capacity (MW)
Custer Energy Center	24
Point Beach	19
Pulliam	108

Table A9-122. Wisconsin Public Service Citygate Meters

Pipeline	Meter Name	Meter Number
ANR	WPSC - Group 1	139258
Guardian	Sheboygan	778122
Guardian	Chilton	778106
Guardian	Denmark	778110
Guardian	SW Greenbay	778114
Guardian	West Greenbay	778118

Xcel Energy

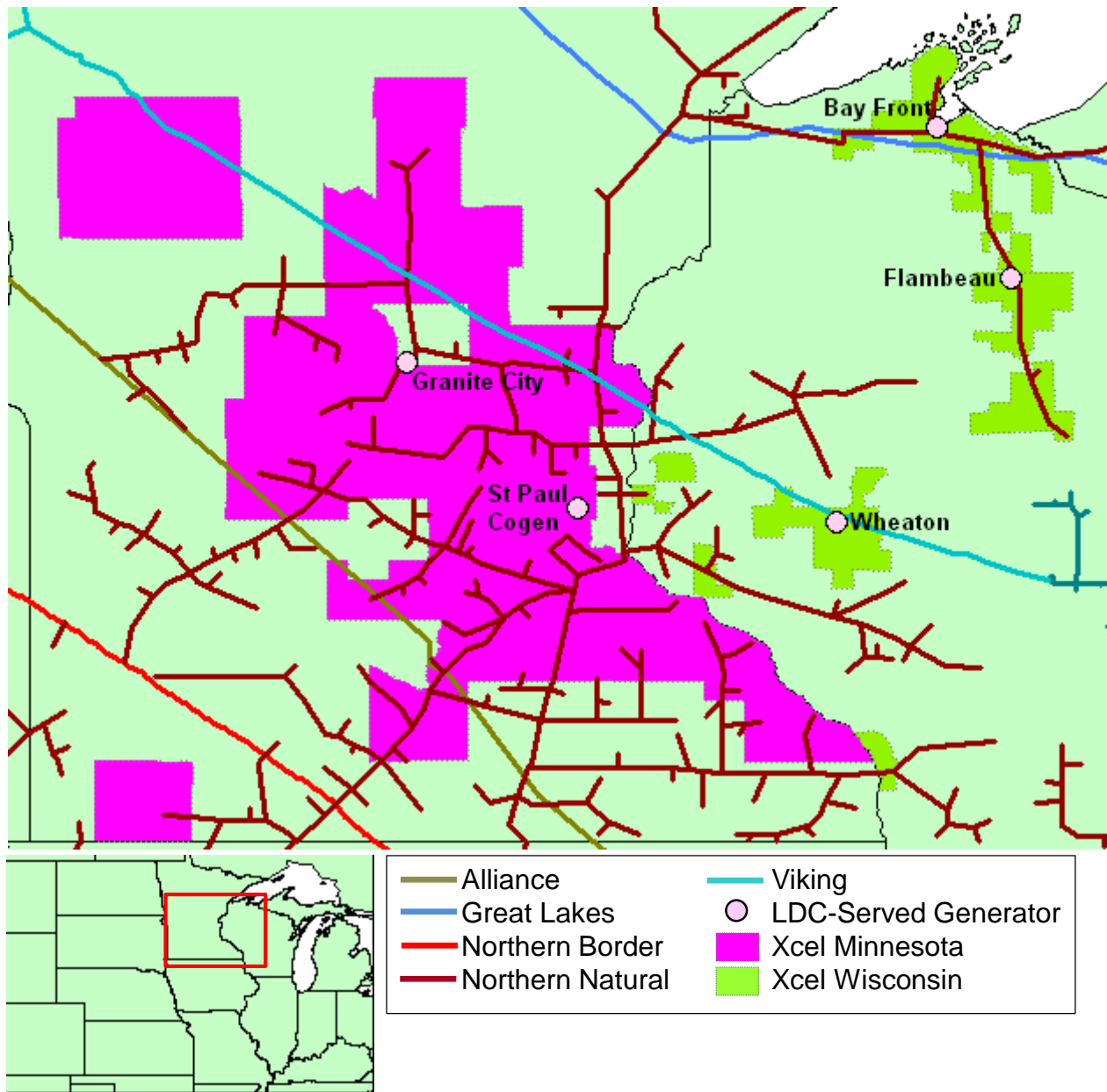


Figure A9-76. Xcel Energy Service Territory

Table A9-123. MISO North/Central Generators Served by Xcel Energy

System	Generator	Capacity (MW)
Minnesota	Granite City	76
Minnesota	Wheaton	451
Wisconsin	Bay Front	21
Wisconsin	Flambeau	20
Wisconsin	St Paul Cogeneration	40

Table A9-124. Xcel Energy Citygate Meters

System	Pipeline	Meter Name	Meter Number
Minnesota	Northern Natural	Zone E/F NSP-Minnesota	N/A
Minnesota	Northern Natural	Anoka MN #2	18284
Minnesota	Northern Natural	Becker #1 - NSP	18286
Minnesota	Northern Natural	Brainerd Lakes MN #2	61175
Minnesota	Northern Natural	Center City MN #1	4110
Minnesota	Northern Natural	Cosmos MN #1	4055
Minnesota	Northern Natural	Darwin MN	62902
Minnesota	Northern Natural	Delano MN #1	4056
Minnesota	Northern Natural	Delano MN #1A	62775
Minnesota	Northern Natural	Delano MN #1B	62970
Minnesota	Northern Natural	Faribault MN #1	78031
Minnesota	Northern Natural	Foley MN #1	4113
Minnesota	Northern Natural	Forest Lake MN #1	4114
Minnesota	Northern Natural	Forest Lake MN #1A	4115
Minnesota	Northern Natural	Forest Lake MN #1B	4116
Minnesota	Northern Natural	Green Isle-Western Gas MN	22903
Minnesota	Northern Natural	Hamburg-Western Gas MN	22902
Minnesota	Northern Natural	Hugo MN #1A	58742
Minnesota	Northern Natural	Kandiyohi MN #1	22021
Minnesota	Northern Natural	Lake City MN #1	4118
Minnesota	Northern Natural	Madison Lake MN #1	52790
Minnesota	Northern Natural	Marine On St. Croix #1-NSP	18285
Minnesota	Northern Natural	Marystown MN #1	50625
Minnesota	Northern Natural	Montrose/Waverly MN	22018
Minnesota	Northern Natural	Northfield MN #1	4119
Minnesota	Northern Natural	Redwing MN #1	2786
Minnesota	Northern Natural	Sartell MN #1	4127
Minnesota	Northern Natural	St. Clair MN #1	52789
Minnesota	Northern Natural	St. Cloud MN #1	2787
Minnesota	Northern Natural	St. Cloud MN #2	35984
Minnesota	Northern Natural	St. Joseph MN #1	4120
Minnesota	Northern Natural	St. Michael MN #2	78181
Minnesota	Northern Natural	St. Paul MN #1E	4121
Minnesota	Northern Natural	St. Paul MN #1P	1238
Minnesota	Northern Natural	St. Paul MN #1Q	2788
Minnesota	Northern Natural	St. Paul MN #1R	4123
Minnesota	Northern Natural	St. Paul MN #1T	4125
Minnesota	Northern Natural	St. Paul MN #4	4126
Minnesota	Northern Natural	Stacy MN #1	4128
Minnesota	Northern Natural	Stillwater MN #1	4129
Minnesota	Northern Natural	Stillwater MN #2	4130
Minnesota	Northern Natural	Wabasha MN #1	4131

System	Pipeline	Meter Name	Meter Number
Minnesota	Northern Natural	Watertown MN #1	4057
Minnesota	Northern Natural	White Bear Lake MN #1	4132
Minnesota	Northern Natural	Winona MN #1	2789
Minnesota	Northern Natural	Withrow #1 - NSP	18287
Minnesota	Viking	East Grand Forks	12001
Minnesota	Viking	Grand Forks	15274
Minnesota	Viking	Dilworth	11861
Minnesota	Viking	Moorhead	15224
Minnesota	Viking	Fargo	15225
Minnesota	Viking	Green Lake	288037
Minnesota	Viking	North Branch	288036
Minnesota	Viking	Taylors Falls	288035
Wisconsin	Great Lakes	Ironwood	132787
Wisconsin	Great Lakes	Ashland	132785
Wisconsin	Great Lakes	Marenisco	293838
Wisconsin	Northern Natural	Zone E/F NSP-Wisconsin	N/A
Wisconsin	Northern Natural	Bayfield WI	11999
Wisconsin	Northern Natural	Bayfield WI #1	554
Wisconsin	Northern Natural	Bergland MI #1	555
Wisconsin	Northern Natural	Bessemer MI #1	556
Wisconsin	Northern Natural	Bessemer MI #2	3518
Wisconsin	Northern Natural	Birch Hill Acres WI	58784
Wisconsin	Northern Natural	Butternut WI #1	557
Wisconsin	Northern Natural	Ewen MI #1	558
Wisconsin	Northern Natural	Fifield WI #1	559
Wisconsin	Northern Natural	Ft. McCoy WI #1	11998
Wisconsin	Northern Natural	Glidden WI #1	560
Wisconsin	Northern Natural	Hudson WI #1	3520
Wisconsin	Northern Natural	Hurley WI #1	802
Wisconsin	Northern Natural	Hurley WI #3	3516
Wisconsin	Northern Natural	Iron River WI #1	563
Wisconsin	Northern Natural	La Crosse WI #1	2769
Wisconsin	Northern Natural	La Crosse WI #1A	3521
Wisconsin	Northern Natural	La Crosse WI #1B (Irish Hill)	58759
Wisconsin	Northern Natural	La Crosse WI #1C (Grand Dad Bluff)	58758
Wisconsin	Northern Natural	Maiden Rock WI #1	79070
Wisconsin	Northern Natural	Mellen WI #1	565
Wisconsin	Northern Natural	Montreal WI #1	566
Wisconsin	Northern Natural	New Richmond WI #1	4134
Wisconsin	Northern Natural	Ogema WI #1	567
Wisconsin	Northern Natural	Park Falls WI #1	568
Wisconsin	Northern Natural	Phillips WI #1	803
Wisconsin	Northern Natural	Prentice WI #1	569

System	Pipeline	Meter Name	Meter Number
Wisconsin	Northern Natural	Ramsay MI #1	570
Wisconsin	Northern Natural	Rib Lake WI #1	571
Wisconsin	Northern Natural	Saxon WI #1	58152
Wisconsin	Northern Natural	Shelby WI #1	58155
Wisconsin	Northern Natural	Wakefield MI #1	3519
Wisconsin	Northern Natural	Washburn WI #1	573
Wisconsin	Northern Natural	Washburn WI #2	574
Wisconsin	Northern Natural	Washburn WI #4	3515
Wisconsin	Northern Natural	Westboro WI #1	575
Wisconsin	Viking	New Richmond	362799
Wisconsin	Viking	NSPWI Kinnickinnic	362788
Wisconsin	Viking	Menomnie	28691
Wisconsin	Viking	North Colfax	288048
Wisconsin	Viking	Wheaton	288045
Wisconsin	Viking	Wheaton Generation	288044
Wisconsin	Viking	Chippewa Falls	28664
Wisconsin	Viking	Eau Claire	28693
Wisconsin	Viking	Fall Creek	288049

Appendix 10

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)¹

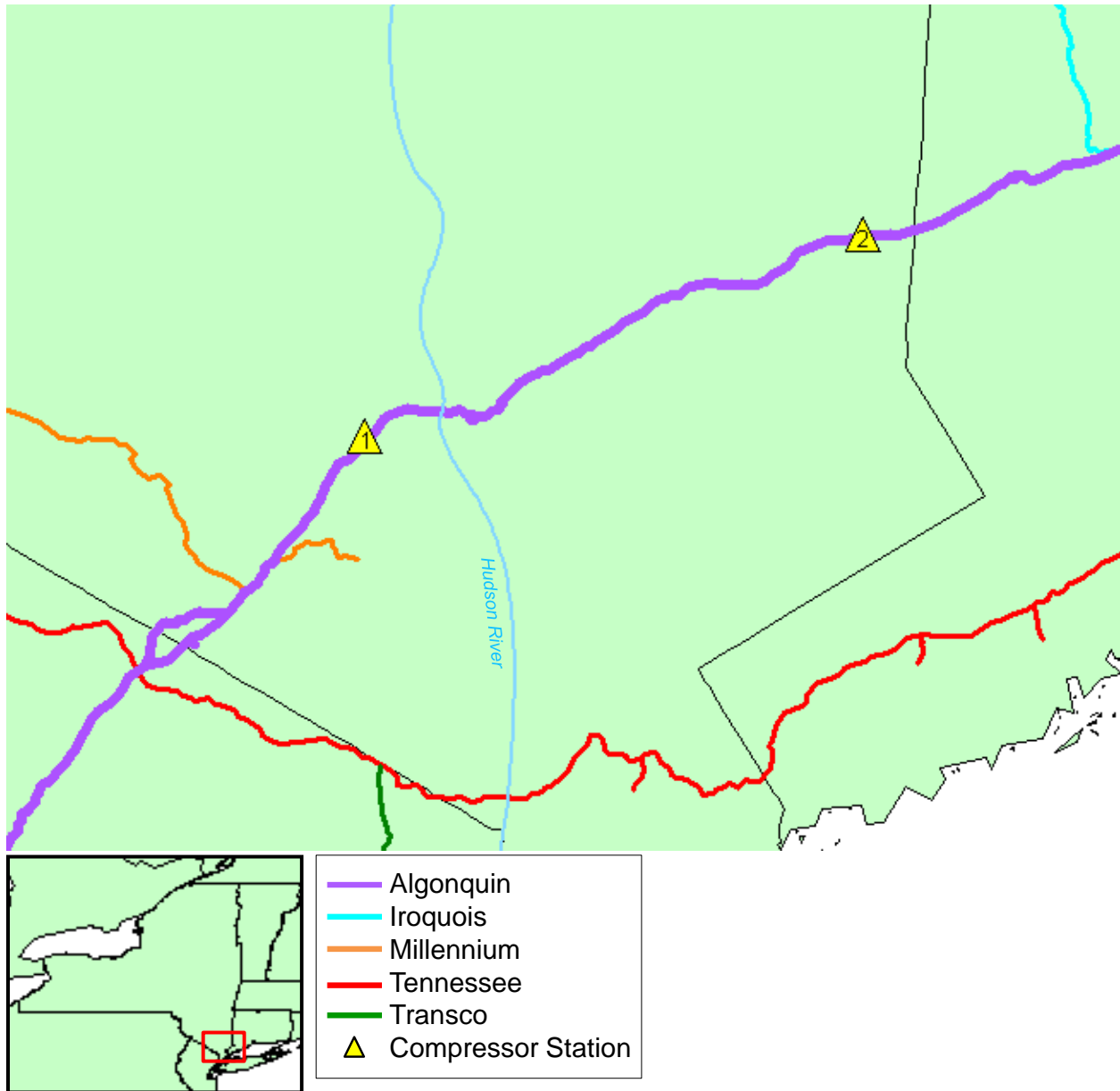


Figure A10-1. Algonquin Facilities in New York

Table A10-1. Algonquin Compressor Stations in NYISO

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

¹ 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/d²

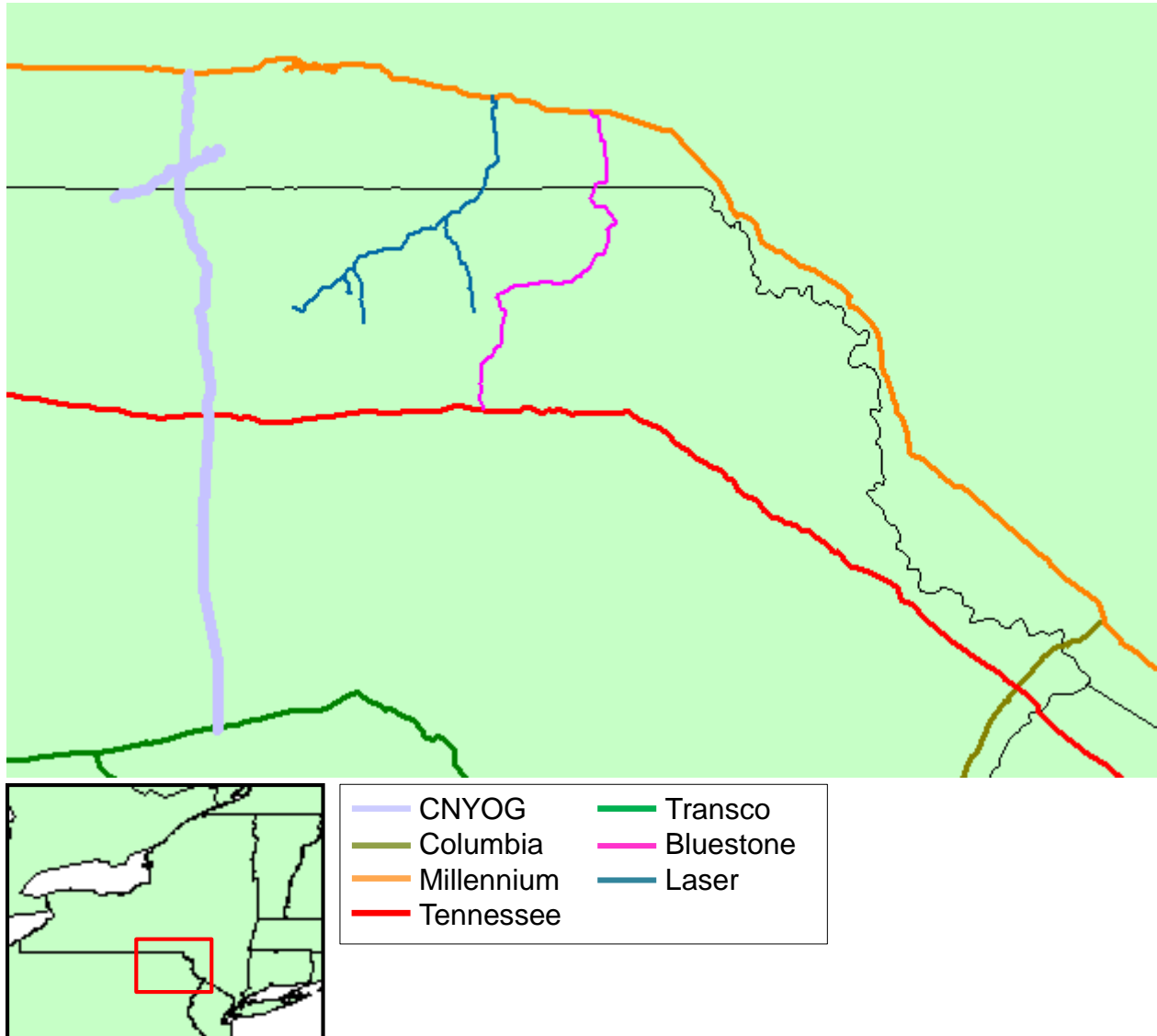


Figure A10-2. Central New York Oil & Gas Facilities

² 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/d³

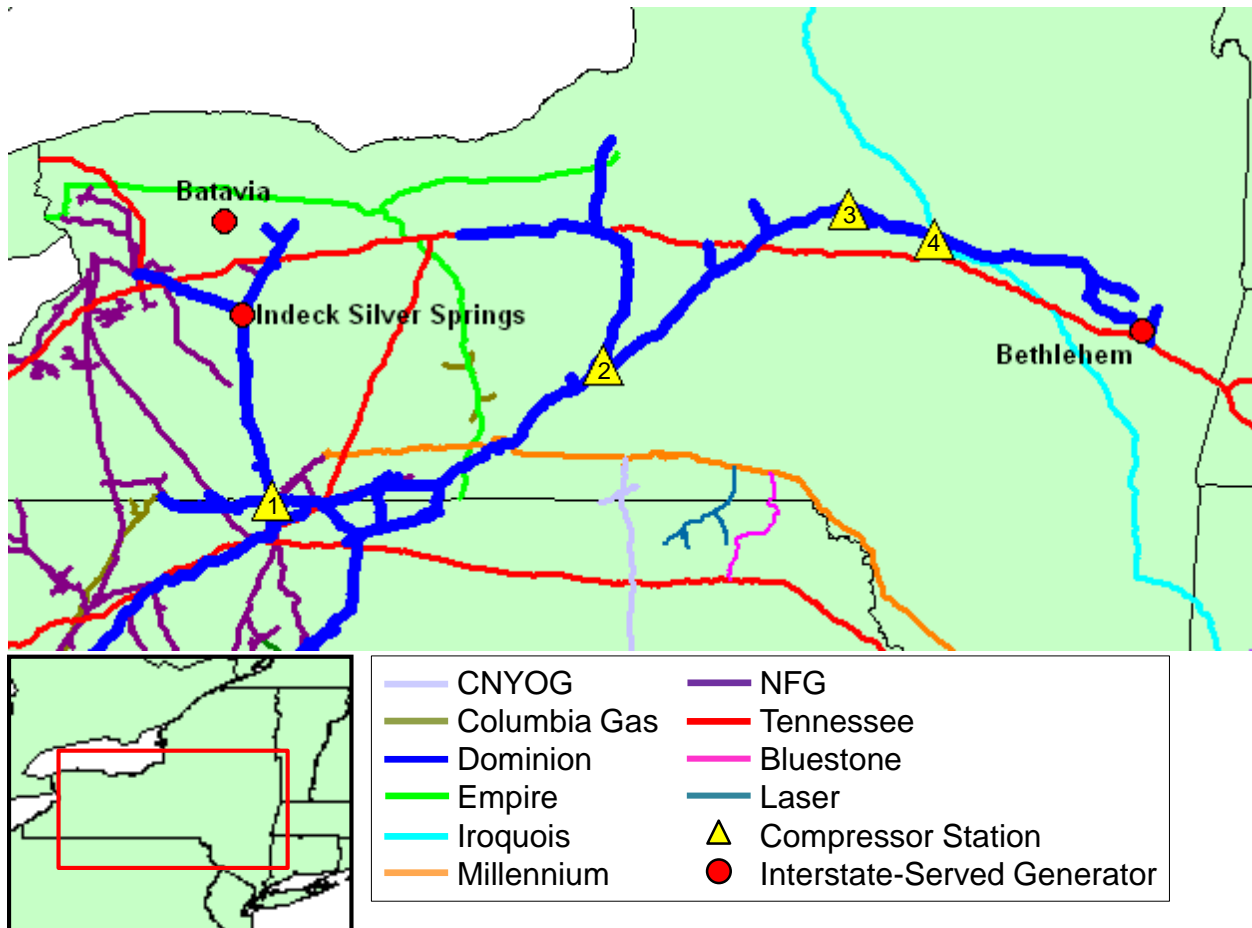


Figure A10-3. Dominion Facilities in NYISO

Table A10-2. NYISO Generators Directly Connected to Dominion

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

³ Peak day system throughput during the 2013-14 heating season.

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

⁵ Bethlehem also has a direct connection to Tennessee

Table A10-3. Dominion Compressor Stations in NYISO

ID	Name	Location
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)

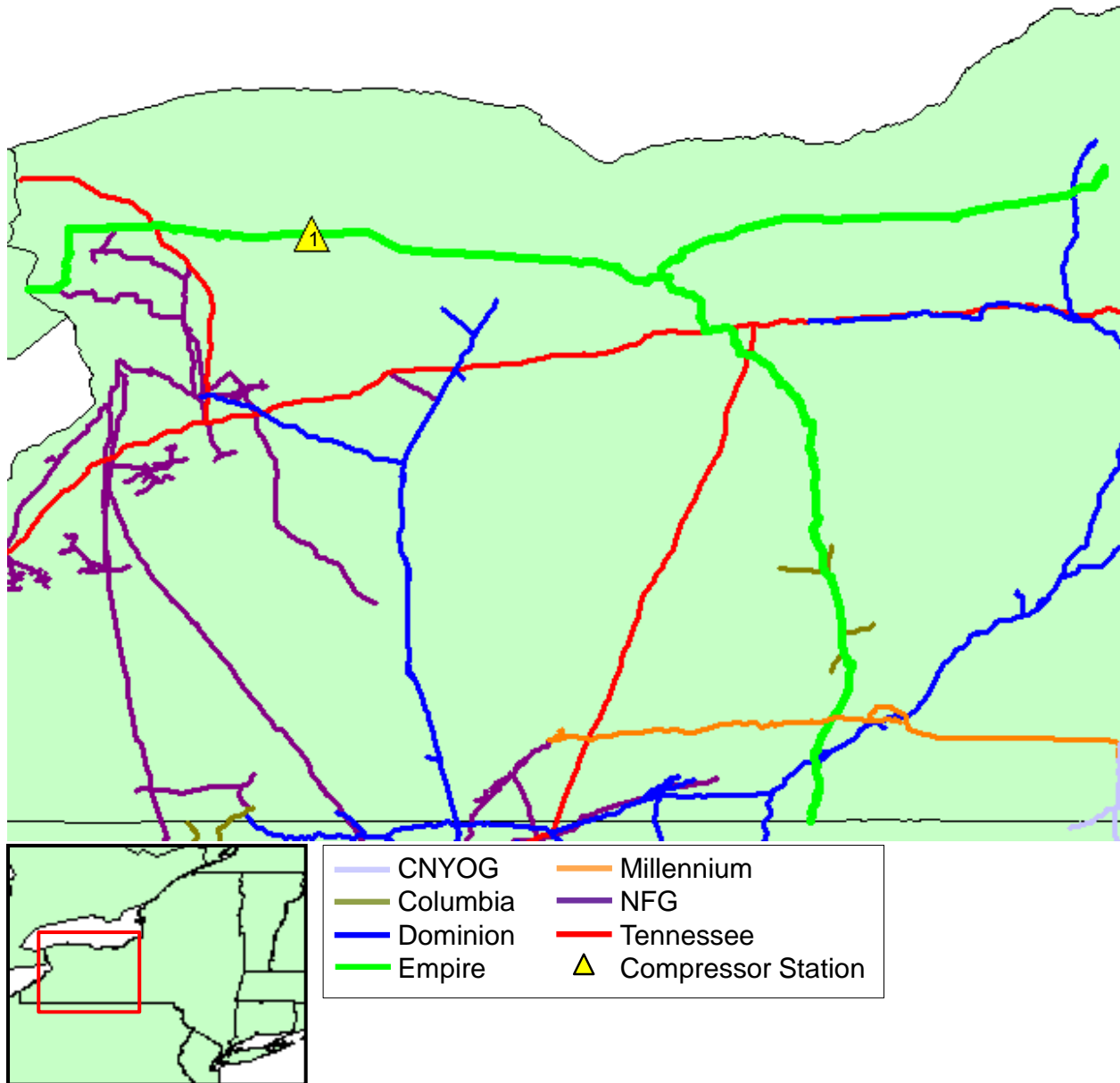


Figure A10-4. Empire Facilities

Table A10-4. Empire Compressor Stations in NYISO

ID	Name	Location
1	Oakfield	Oakfield, NY

Iroquois Gas Transmission System⁶

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

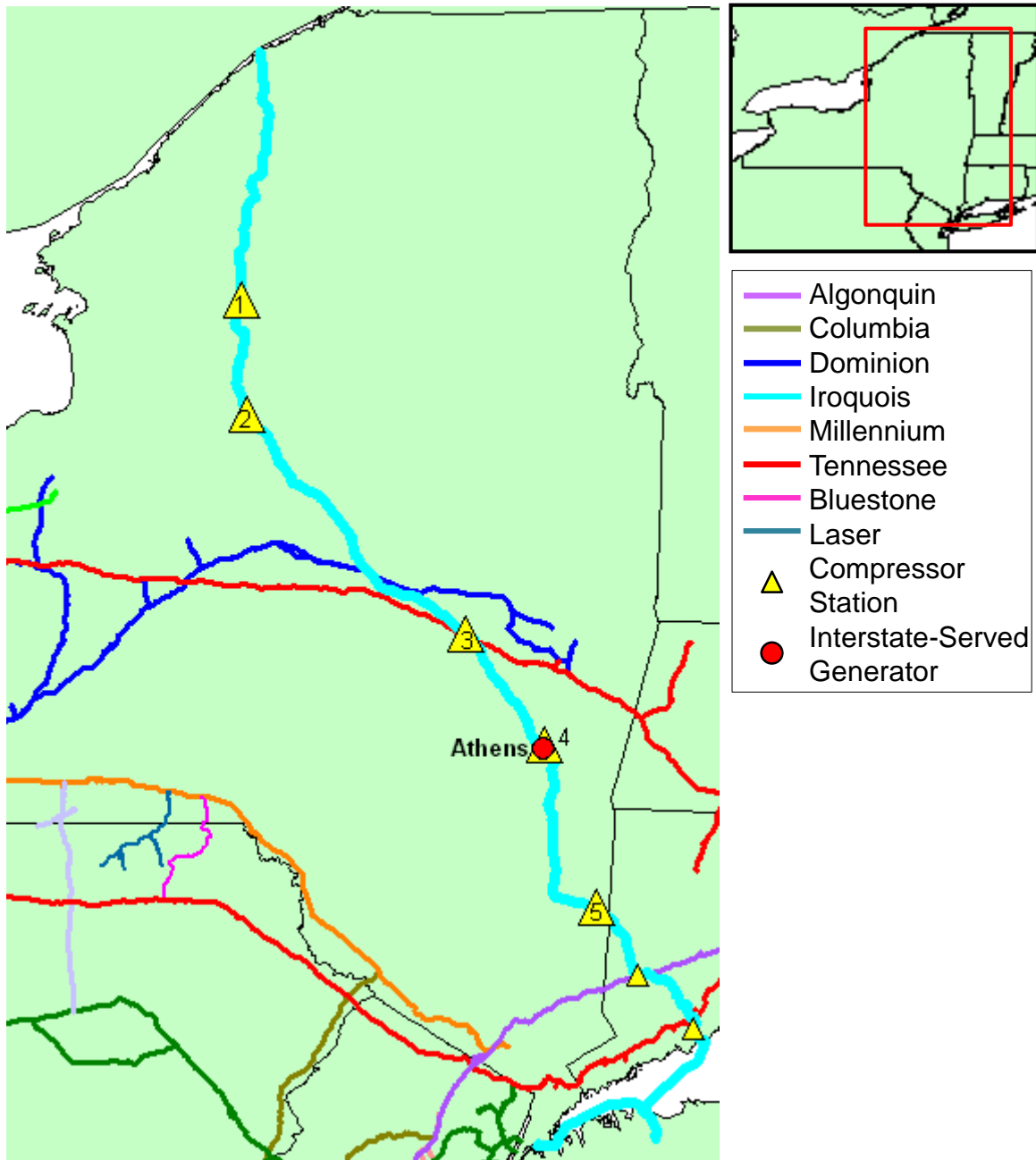


Figure A10-5. Iroquois Facilities

⁶ 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%).

⁷ Design Capacity Report: http://iroquois.com/informationalpostings/reports/cap_designcap.asp

Table A10-5. NYISO Generators Directly Connected to Iroquois

Generator	Capacity (MW)	Meter Name	Meter Number
Athens	1,323.0	Athens	349565

Table A10-6. Iroquois Compressor Stations in NYISO

ID	Name	Location
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/d⁸

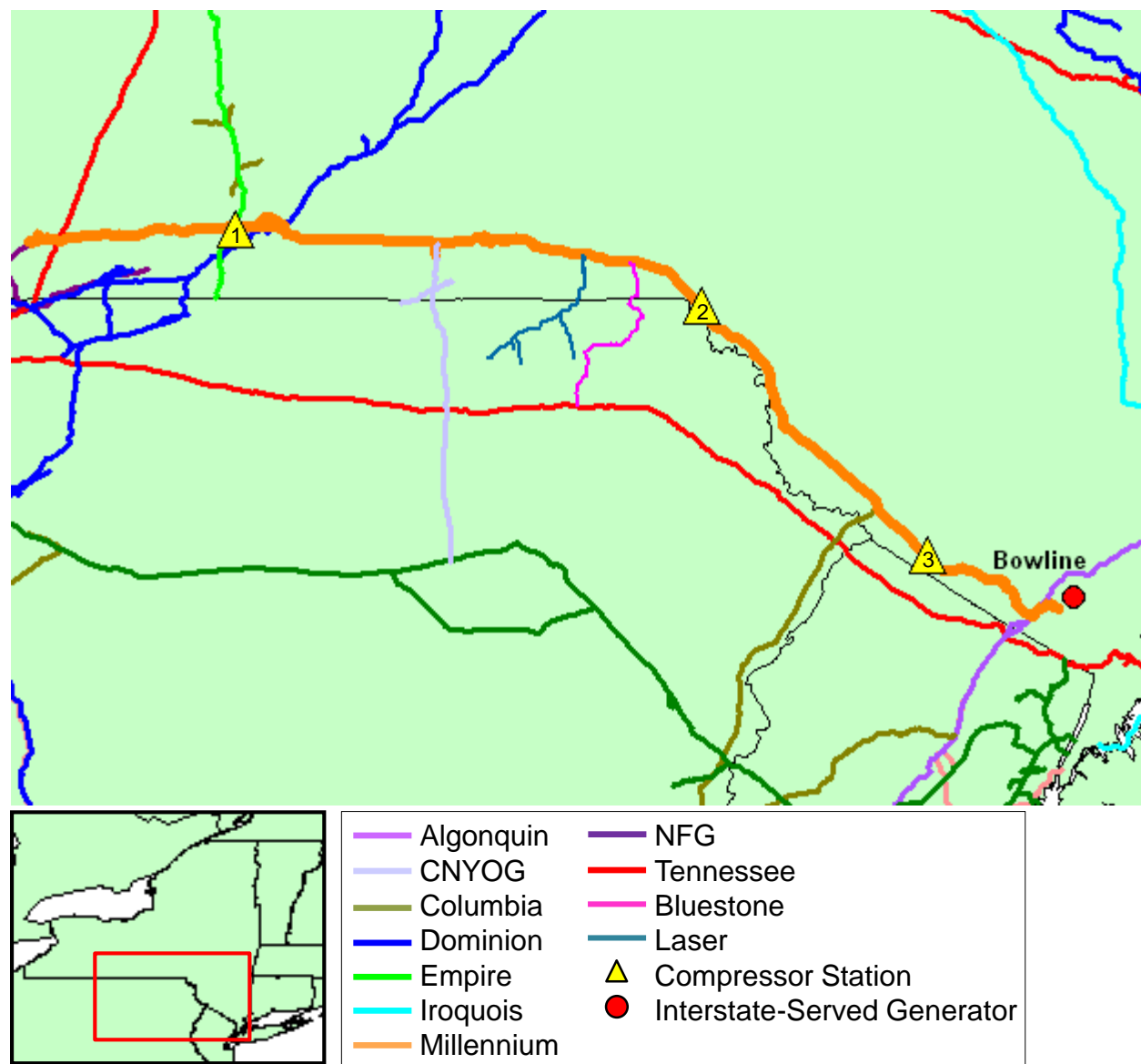


Figure A10-6. Millennium Facilities

Table A10-7. NYISO Generators Directly Connected to Millennium

Generator	Capacity (MW)	Meter Name	Meter Number
Bowline ⁹	1,242.0	Bowline	637528

⁸ 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.

Table A10-8. Millennium Compressor Stations in NYISO

ID	Name	Location
1	Corning	Corning, NY
2	Hancock	Hancock, NY
3	Minisink	Millennium, NY

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

National Fuel Gas Supply Corporation (National Fuel Gas Company)

Capacity: 2,764 MDth/d

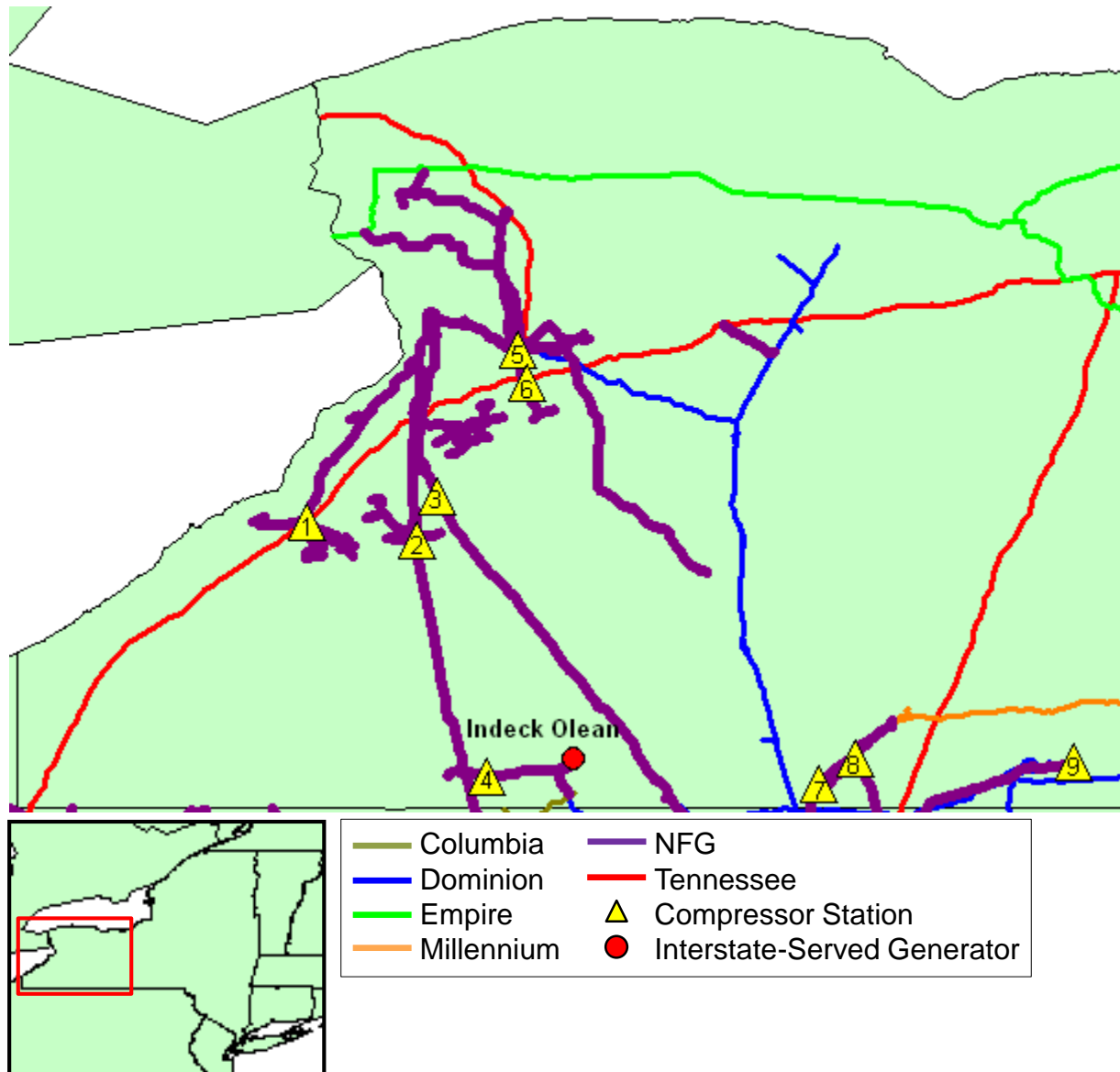


Figure A10-7. NFG Facilities in New York

Table A10-9. NYISO Generators Directly Connected to NFG

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

Table A10-10. NFG Compressor Stations in NYISO

ID	Name	Location
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)¹⁰

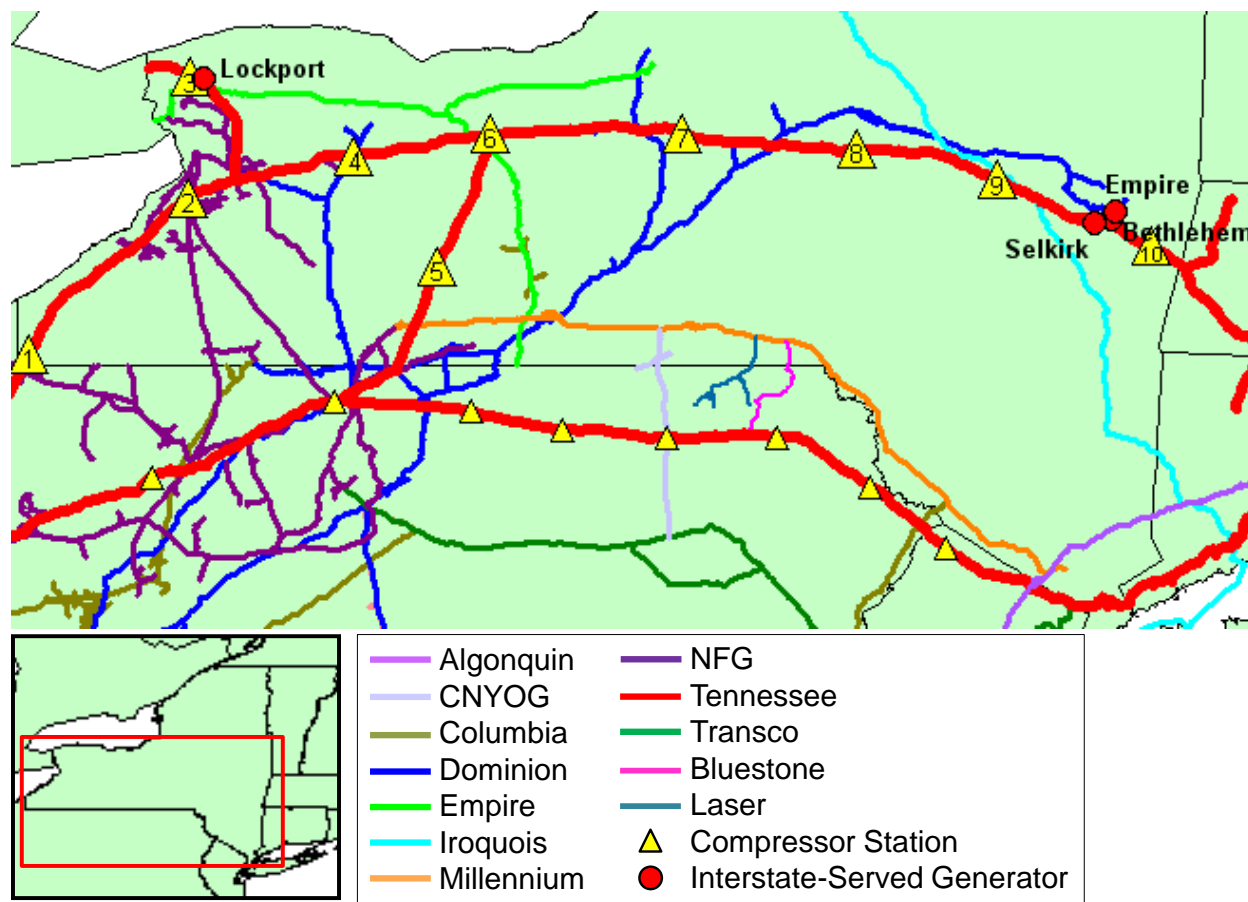


Figure A10-8. Tennessee Facilities in New York

Table A10-11. 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

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

Table A10-12. Tennessee Compressor Stations in NYISO

ID	Name	Location
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 System¹¹

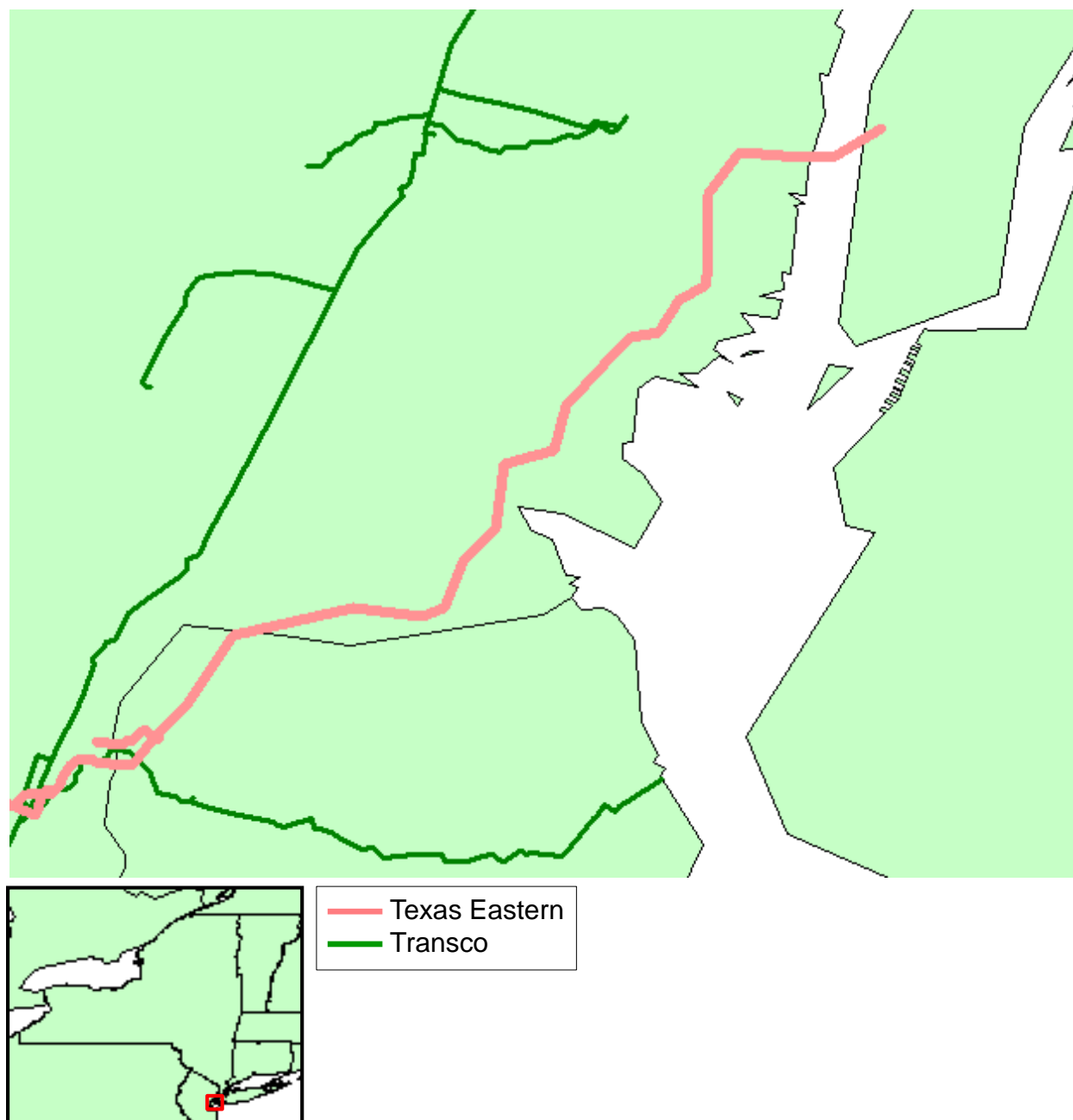


Figure A10-9. Texas Eastern Facilities in New York

¹¹ 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) 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 System¹²

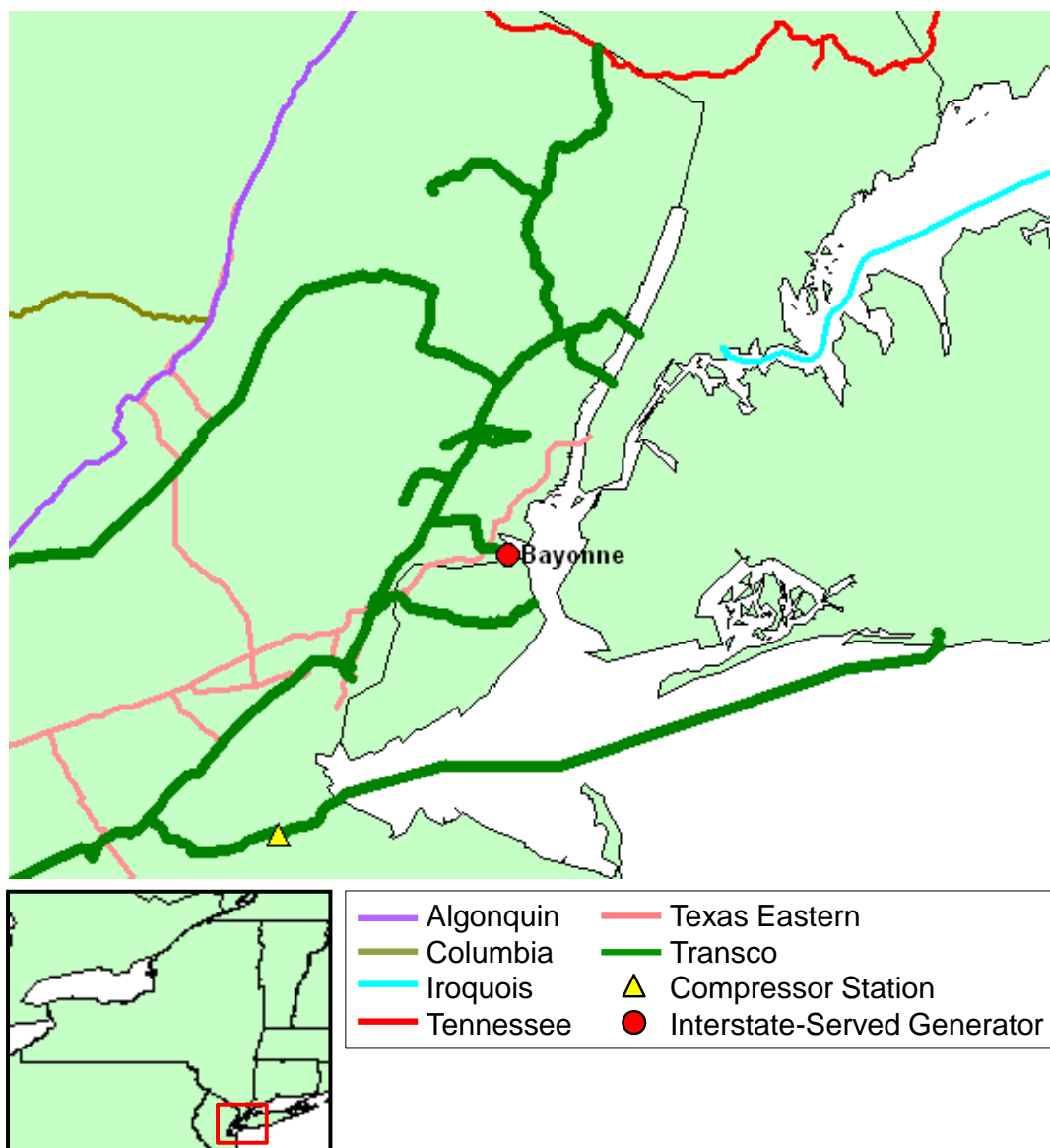


Figure A10-10. Transco Facilities Serving NYISO

Table A10-13. NYISO Generators Directly Connected to Transco

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

¹² 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) plus 200 MDth/d of Northeast Supply Link Project capacity (FERC Docket No. CP12-30, in service November 2013).

Emkey Transportation (Emkey Energy)

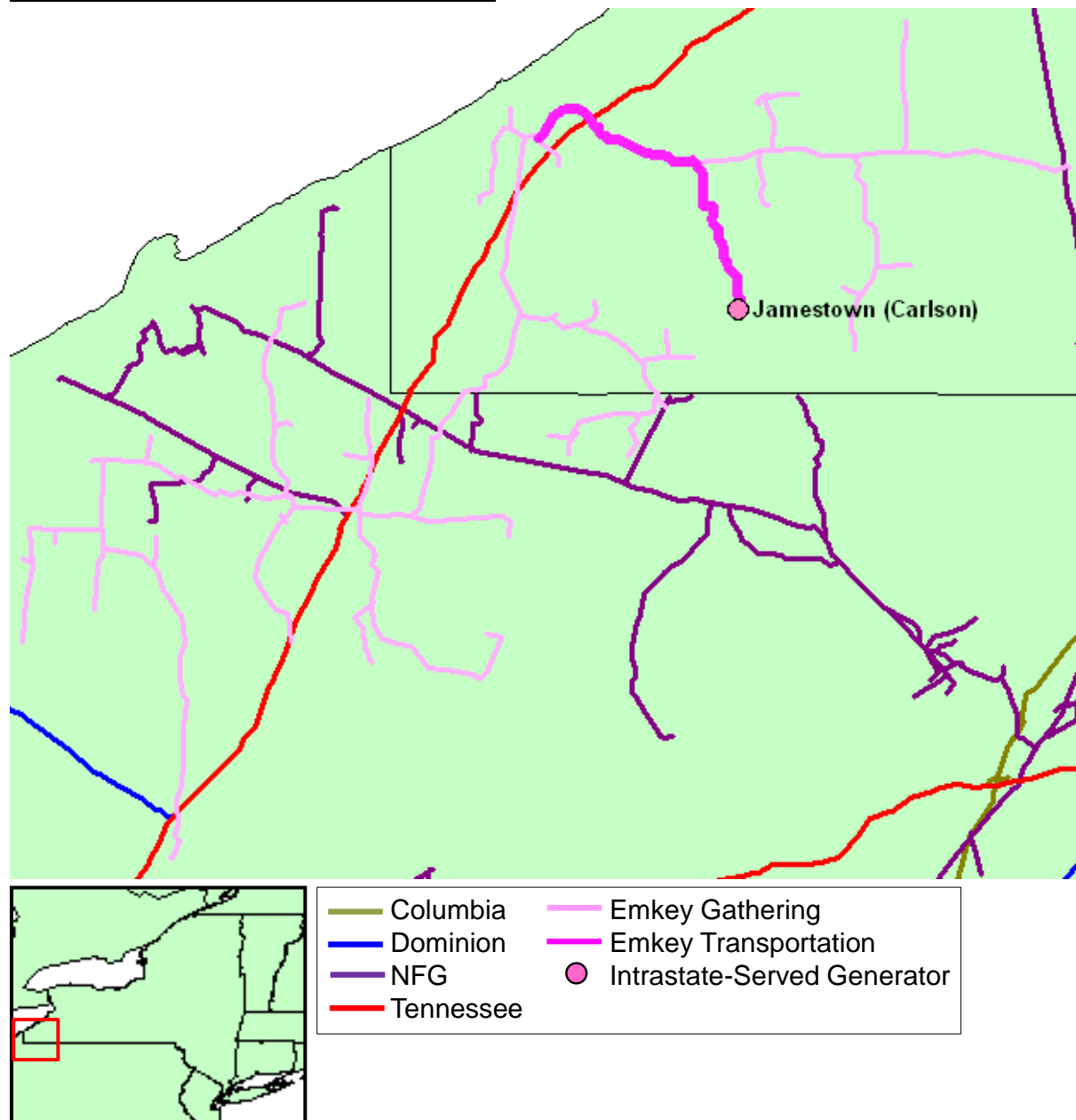


Figure A10-11. Emkey Transportation Facilities

Table A10-14. NYISO Generators Served by Emkey Transportation

Generator	Capacity (MW)
Jamestown (Carlson)	47.3

¹³ 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.

North Country Pipeline (TransAlta)

Capacity: 105 MDth/d¹⁴

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

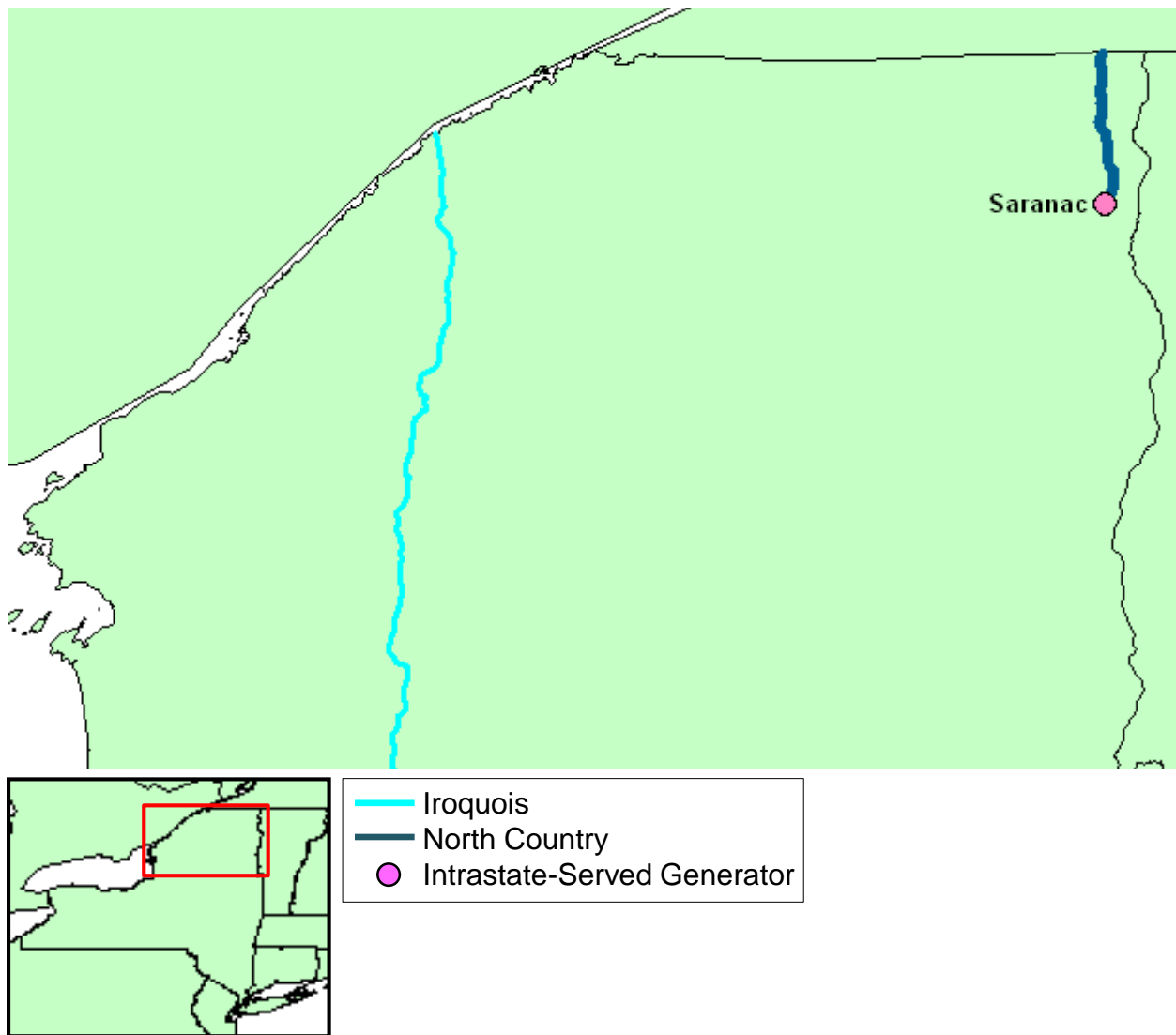


Figure A10-12. North Country Facilities

Table A10-15. NYISO Generators Served by North Country

Generator	Capacity (MW)
Saranac	285.6

¹⁴ Source: NYPSC Declaratory Ruling in Case No. 92-M-0322.

Central Hudson Gas & Electric (Fortis, Inc.)

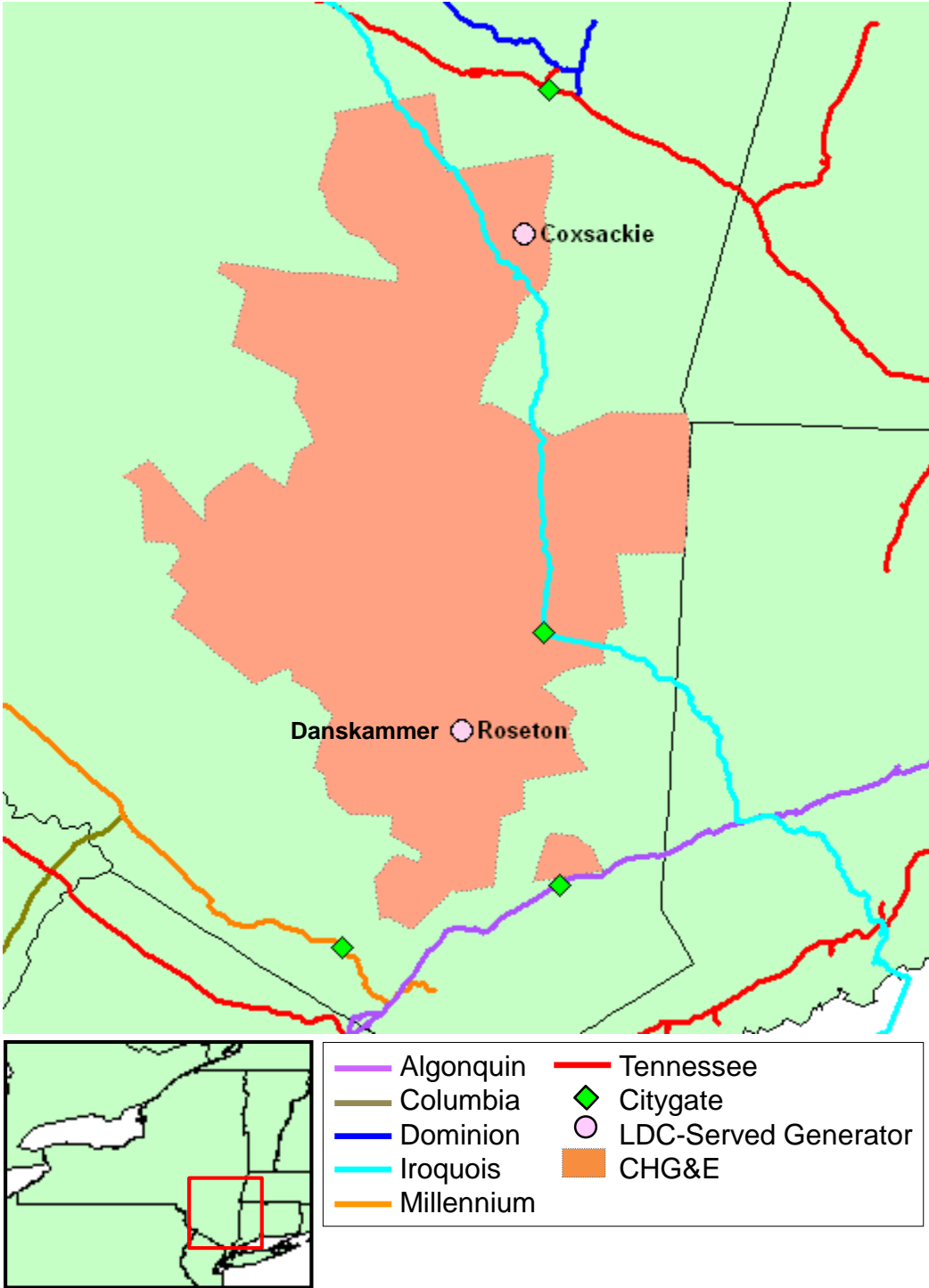


Figure A10-13. Central Hudson Gas & Electric Service Territory

Table A10-16. NYISO Generators Served by Central Hudson Gas & Electric

Generator	Capacity (MW)
Coxsackie	21.6
Danskammer ¹⁵	530.0
Roseton	1,242.0

Table A10-17. Central Hudson Gas & Electric Citygate Meters

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

¹⁵ 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

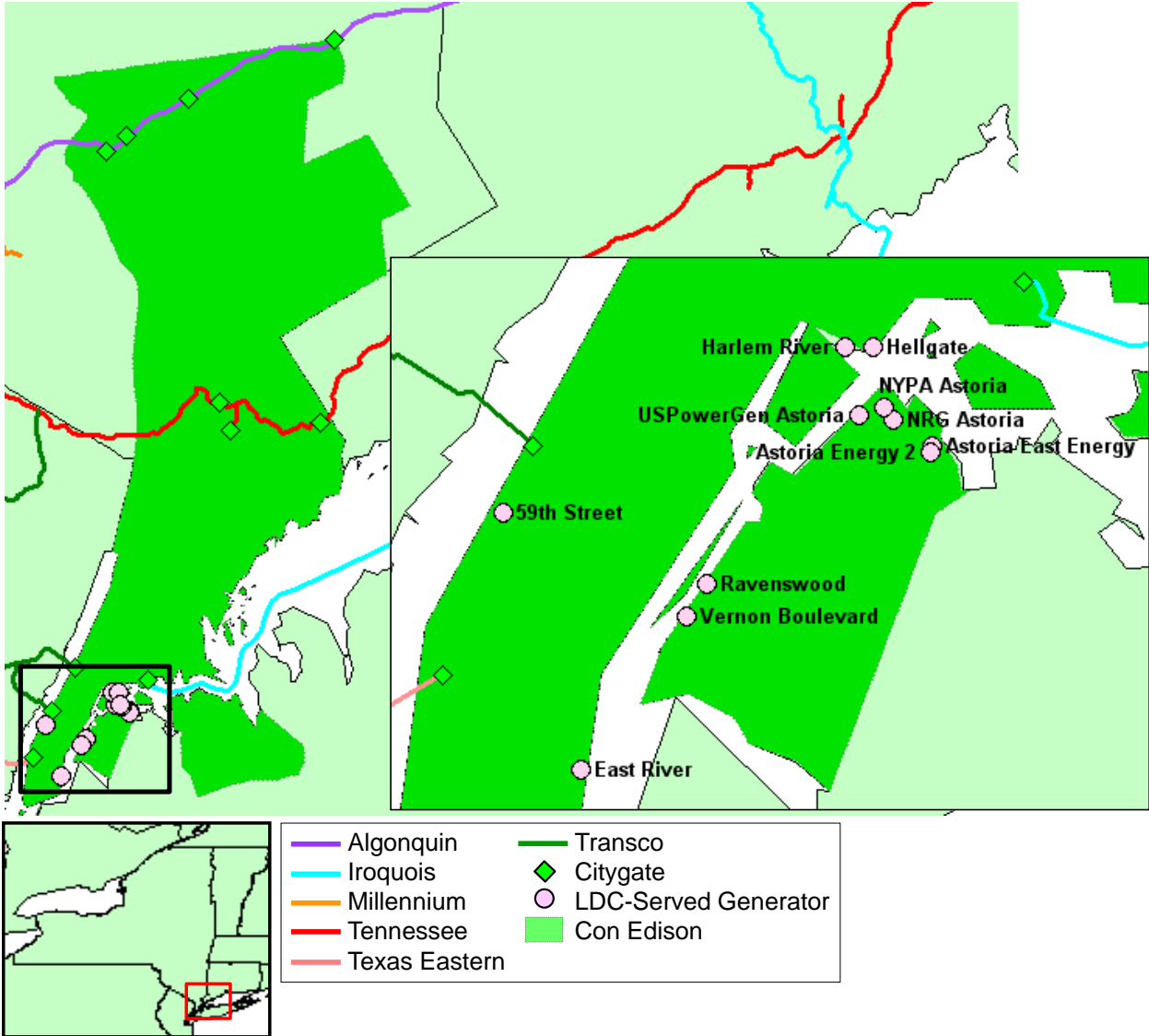


Figure A10-14. Con Edison Service Territory

Table A10-18. NYISO Generators Served by Con Edison

Generator	Capacity (MW)
59th Street	17.1
USPowerGen 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 A10-19. Con Edison Citygate Meters

Pipeline	Meter Name	Meter Number
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 nd Street)	16
Transco	Manhattan (134 th Street)	

¹⁶ 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

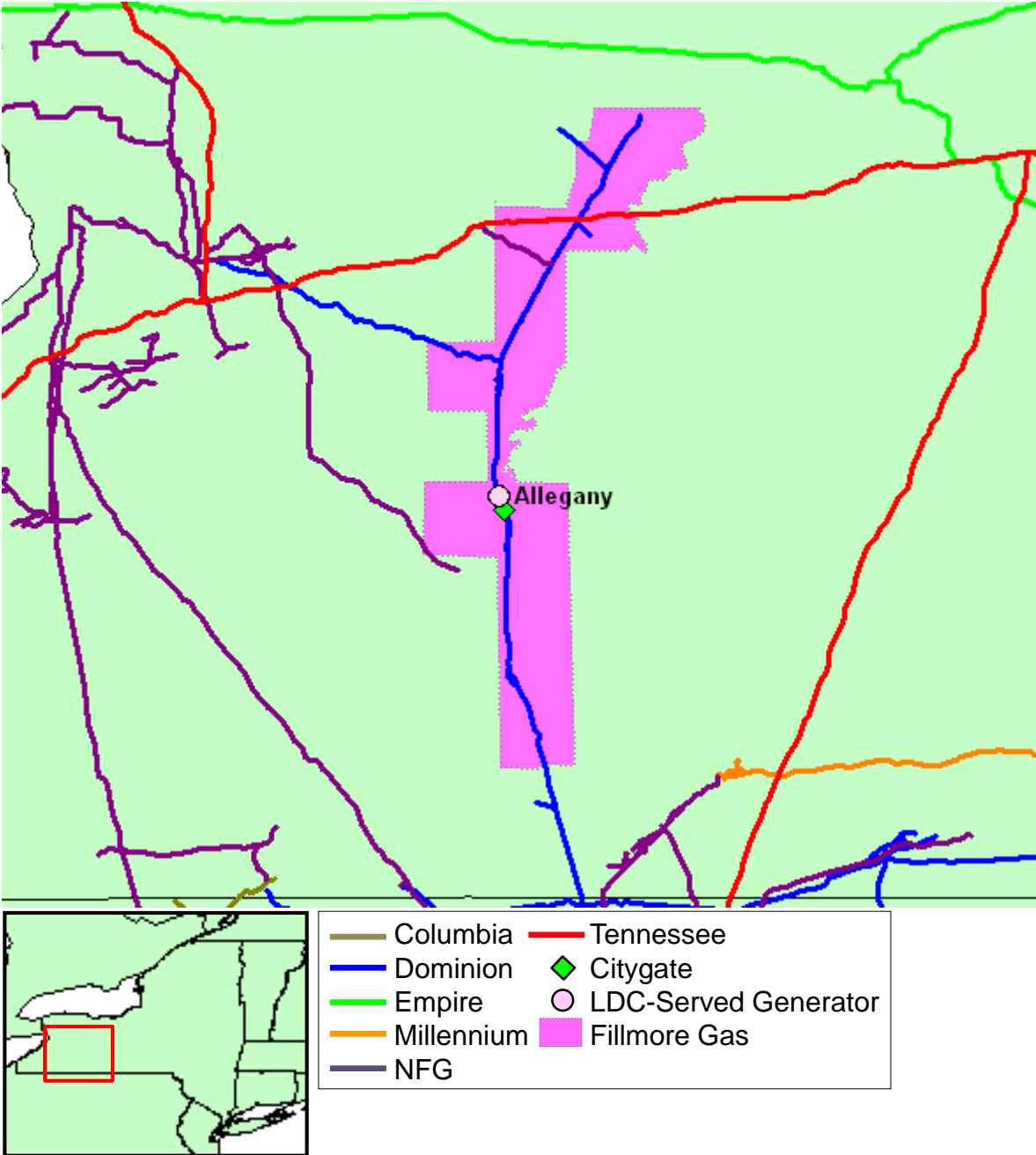


Figure A10-15. Fillmore Gas Service Territory

Table A10-20. NYISO Generators Served by Fillmore Gas

Generator	Capacity (MW)
Allegheny	67.0

Table A10-21. Fillmore Gas Citygate Meters

Pipeline	Meter Name	Meter Number
Dominion	Fillmore	23600
Dominion	Allegheny Generating Station LLC	23632

National Fuel Gas Distribution

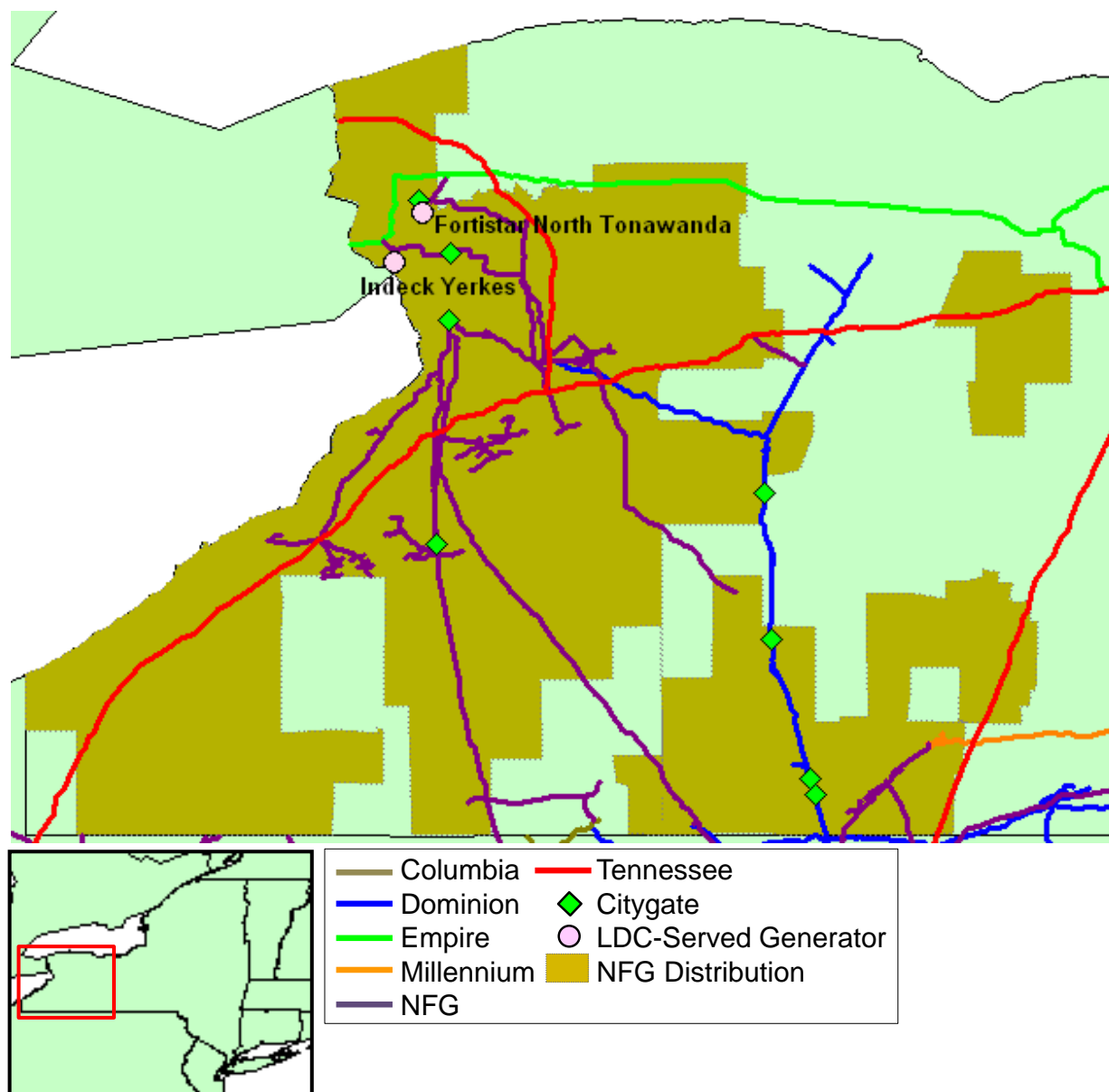


Figure A10-16. NFG Distribution Service Territory in New York

Table A10-22. NYISO Generators Served by NFG Distribution

Generator	Capacity (MW)
Fortistar North Tonawanda	55.3
Indeck Yerkes	59.9

Table A10-23. NFG Distribution Citygate Meters

Pipeline	Meter Name	Meter Number
Dominion	National Fuel	20900
NFG	NFGDC NY	NFGDC NY

National Grid



Figure A10-17. National Grid Long Island Service Territory

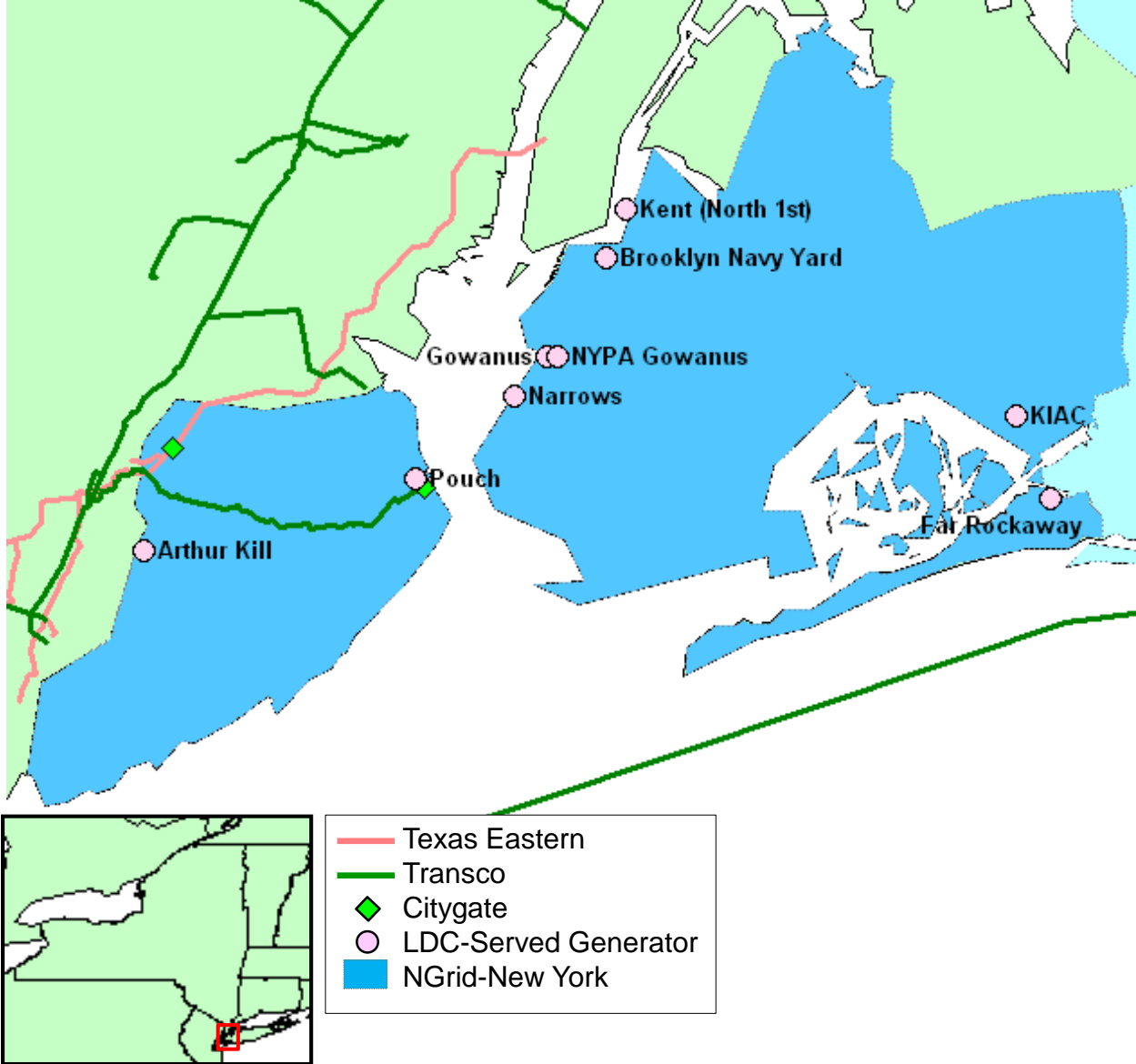


Figure A10-18. National Grid New York City Service Territory

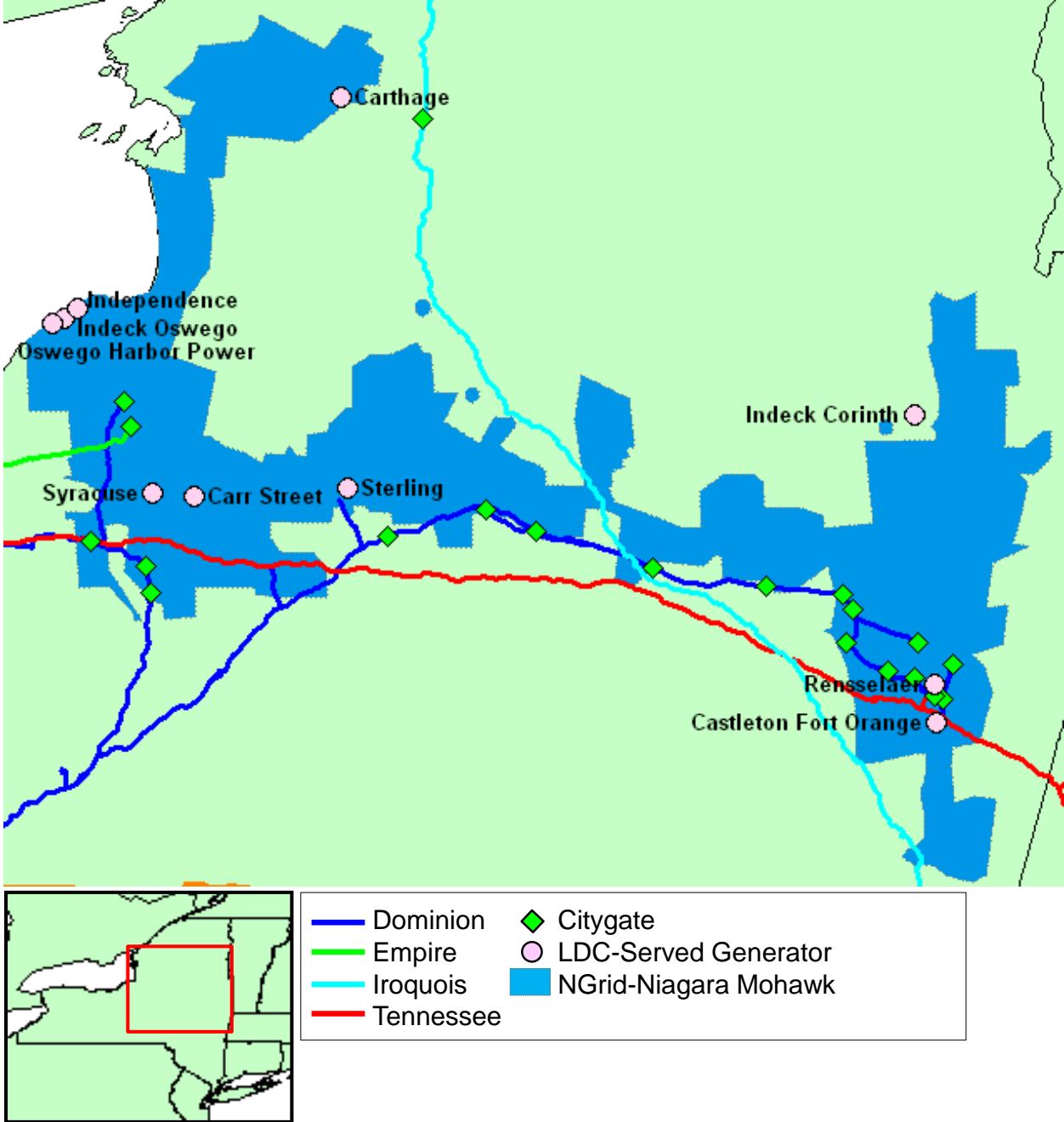


Figure A10-19. National Grid-Niagara Mohawk Service Territory

Table A10-24. NYISO Generators Served by National Grid

NGrid System	Generator	Capacity (MW)
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 ¹⁷	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 ¹⁸	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

¹⁷ Glenwood also has 126 MW of oil-only capacity.

¹⁸ Port Jefferson also has 16 MW of oil-only capacity.

Table A10-25. National Grid Citygate Meters

NGrid System	Pipeline	Meter Name	Meter Number
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 ¹⁹	012002010
NGrid-Niagara Mohawk	Iroquois	Boonville	264332
NGrid-Niagara Mohawk	Iroquois	Croghan	147193
NGrid-Niagara Mohawk	Tennessee	NiagMoh/TGP South Albany Albany	420918

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

Orange & Rockland (Con Edison)

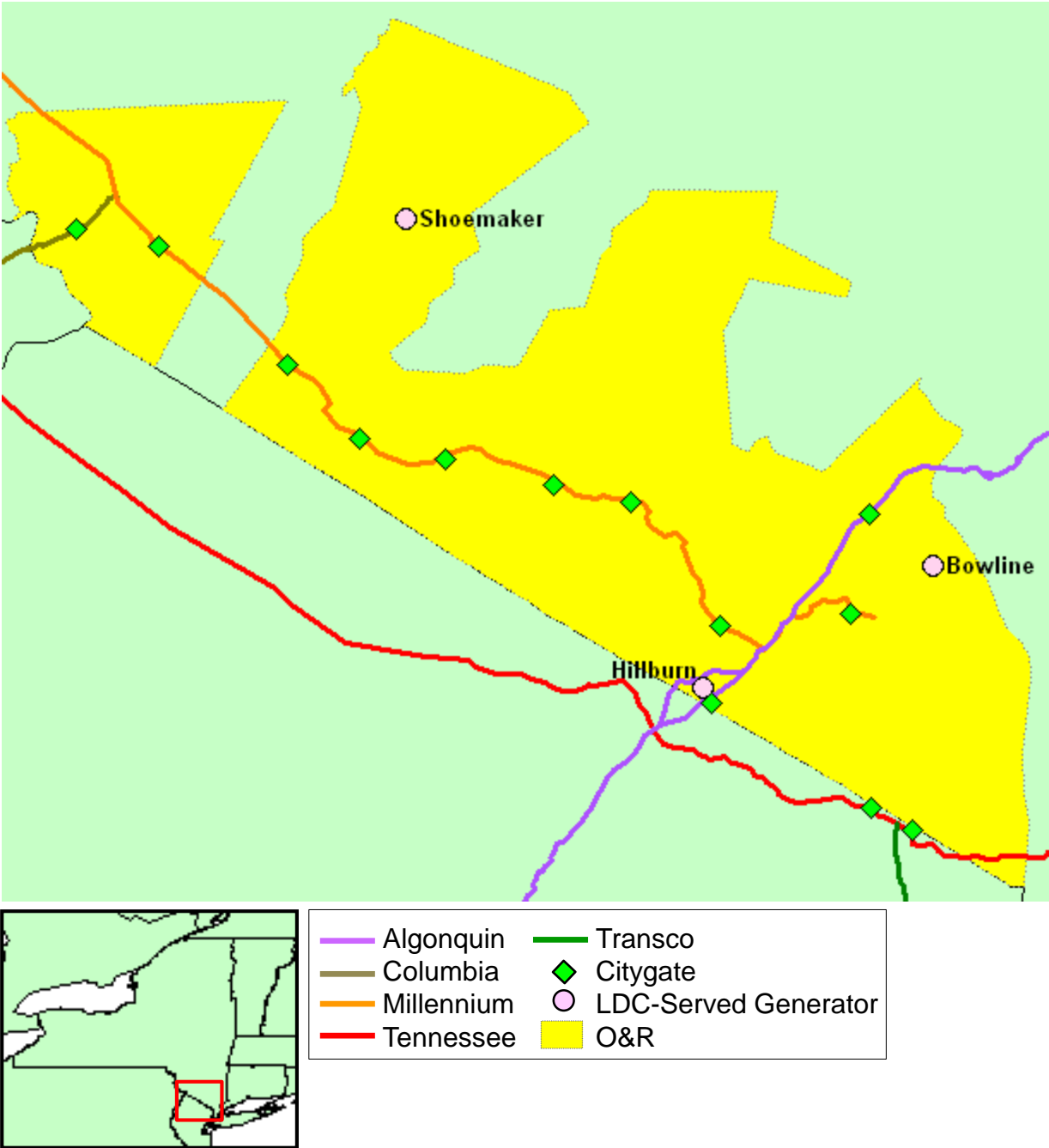


Figure A10-20. Orange & Rockland Service Territory

Table A10-26. NYISO Generators Served by Orange & Rockland

Generator	Capacity (MW)
Bowline ²⁰	1,242.0
Hillburn	46.5
Shoemaker	41.9

Table A10-27. Orange & Rockland Citygate Meters

Pipeline	Meter Name	Meter Number
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 ²¹	Orange Rockland	1006568

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

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

St. Lawrence Gas (Enbridge)

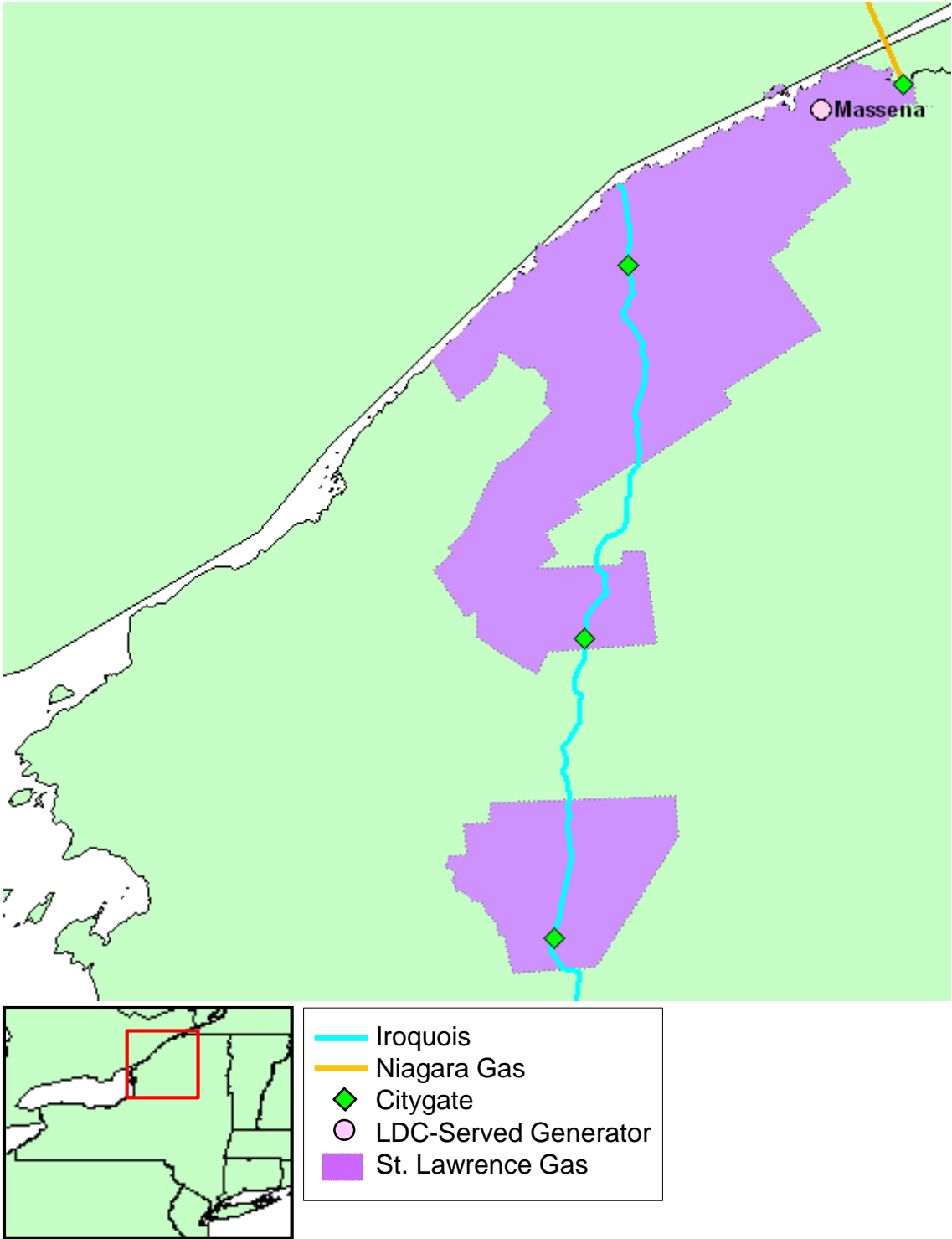


Figure A10-21. St. Lawrence Gas Service Territory

Table A10-28. NYISO Generators Served by St. Lawrence Gas

Generator	Capacity (MW)
Beaver Falls	107.8
Massena	102.1

Table A10-29. St. Lawrence Gas Citygate Meters

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

Elizabethtown Gas / Public Service Electric & Gas

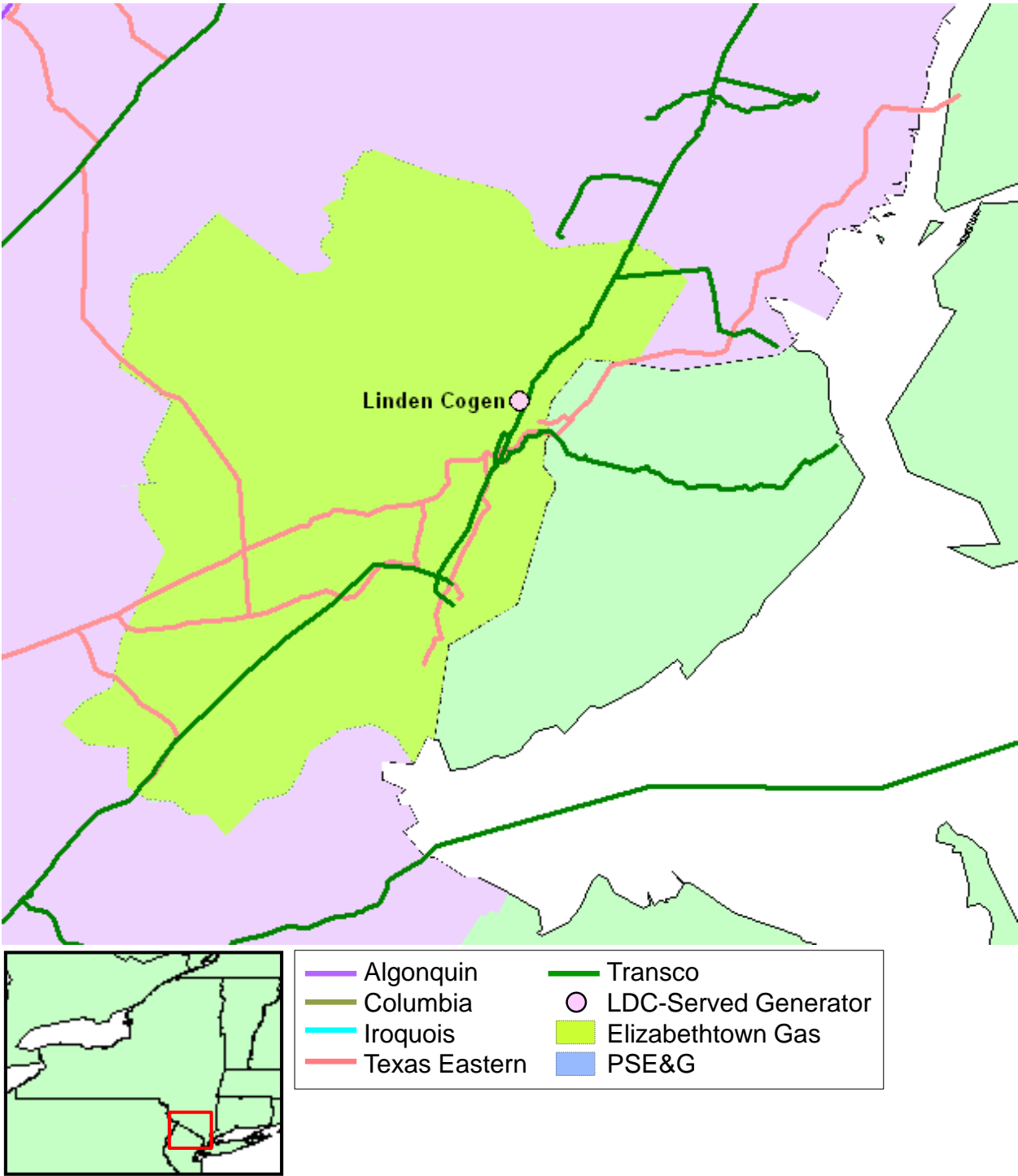


Figure A10-22. Linden Cogen Gas Connections

Table A10-30. NYISO Generators Served by Elizabethtown / PSE&G

Generator	Capacity (MW)
Linden Cogen ²²	705

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

Appendix 11

Gas Infrastructure Serving Generation in ISO-NE

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Data Sources:

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

Algonquin Gas Transmission (Spectra Energy)

Capacity: 1,418 MDth/d (Southeast – NY/CT border)¹

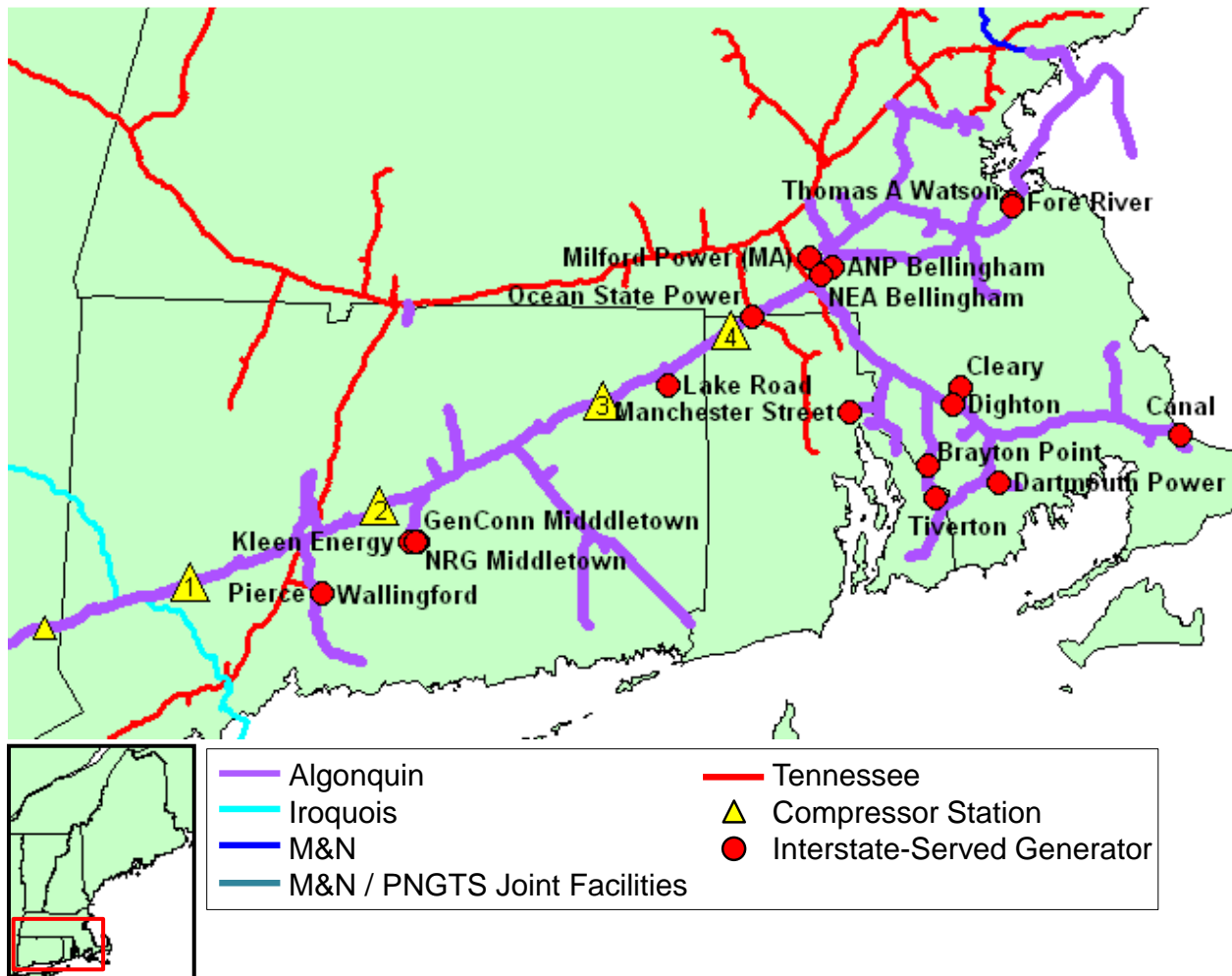


Figure A11-1. Algonquin Facilities in New England

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

Table A11-1. ISO-NE Generators Directly Connected to Algonquin

Generator	Capacity (MW)	Meter Name	Meter Number
ANP Bellingham	532.1	ANP Bellingham Energy Company (Norfolk,MA)	814
Brayton Point	445.5	Brayton Point Energy, Llc	90
Canal	547.0	Mirant Canal, (Barnstable,MA)	806
Cleary	109.9	TMPL (Bristol,MA)	812
Dartmouth Power	89.5	Dartmouth Power (Norfolk,MA)	93
Dighton	185.0	Dighton Power Llc Bristol Ma (Bristol,MA)	815
Fore River	843.0	Fore River (Norfolk,MA)	803
GenConn Middletown	196.8	Genconn Power Plant	836
Kleen Energy	620.0	Kleen Energy	833
Lake Road	857.3	PG&E Lake Road (Windham,CT)	817
Manchester Street ²	509.8	PG&E Manchester St, (Providence,RI)	87
Milford Power (MA)	170.7	Enron Power (Norfolk,MA)	801
NEA Bellingham	336.5	Bellingham(Norfolk,MA)	94
NRG Middletown	364.4	NRG Middletown, (Middlesex,CT)	810
Ocean State Power ³	635.1	Ocean St (Providence,RI)	95
Pierce	94.6	CMEEC-Pierce Power Plant-(New Haven,CT)	831
Thomas A Watson	114.8	BELD - Braintree Electric Linghting (Norfolk,MA)	834
Tiverton	278.8	Calpine Tiverton, (Providence,RI)	816
Wallingford	244.3	Wallingford Energy Interconnect (Fairfield,CT)	820

Table A11-2. Algonquin Compressor Stations in ISO-NE

ID	Name	Location
1	Oxford	Oxford, CT
2	Cromwell	Cromwell, CT
3	Chaplin	Chaplin, CT
4	Burrillville	Burrillville, RI

² National Grid / Narragansett Electric owns, operates and maintains the pipeline between the Algonquin meter and the Manchester Street plant.

³ Ocean State Power is directly connected to Algonquin and Tennessee.

Granite State Gas Transmission (Unit)

Capacity: 150 MDth/d

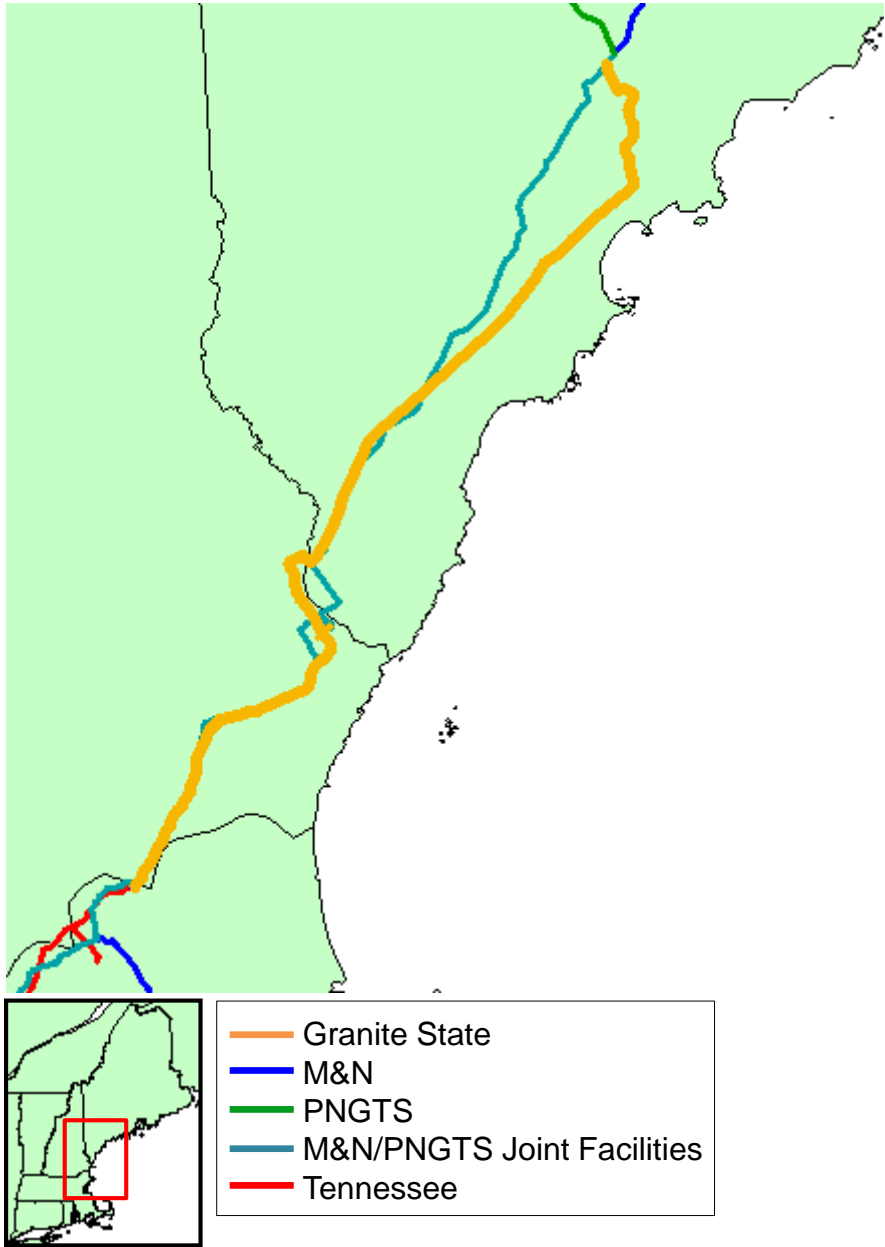


Figure A11-2. Granite State Facilities

Iroquois Gas Transmission System⁴

Capacity: 1,195 MDth/d (Waddington) / 1,545 MDth/d (Waddington + Brookfield⁵)



Figure A11-3. Iroquois Facilities in New England

⁴ 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%).

⁵ Design Capacity Report: http://iroquois.com/informationalpostings/reports/cap_designcap.asp

Table A11-3. ISO-NE Generators Directly Connected to Iroquois

Generator	Capacity (MW)	Meter Name	Meter Number
GenConn Devon	196.8	Devon B	893935
Milford Power (CT)	569.4	Milford B	281335
NRG Devon	156.5	Devon	147191

Table A11-4. Iroquois Compressor Stations in ISO-NE

ID	Name	Location
1	Brookfield	Brookfield, CT
2	Milford	Milford, CT

Maritimes & Northeast Pipeline (Spectra Energy)

Capacity: 847 MDth/d

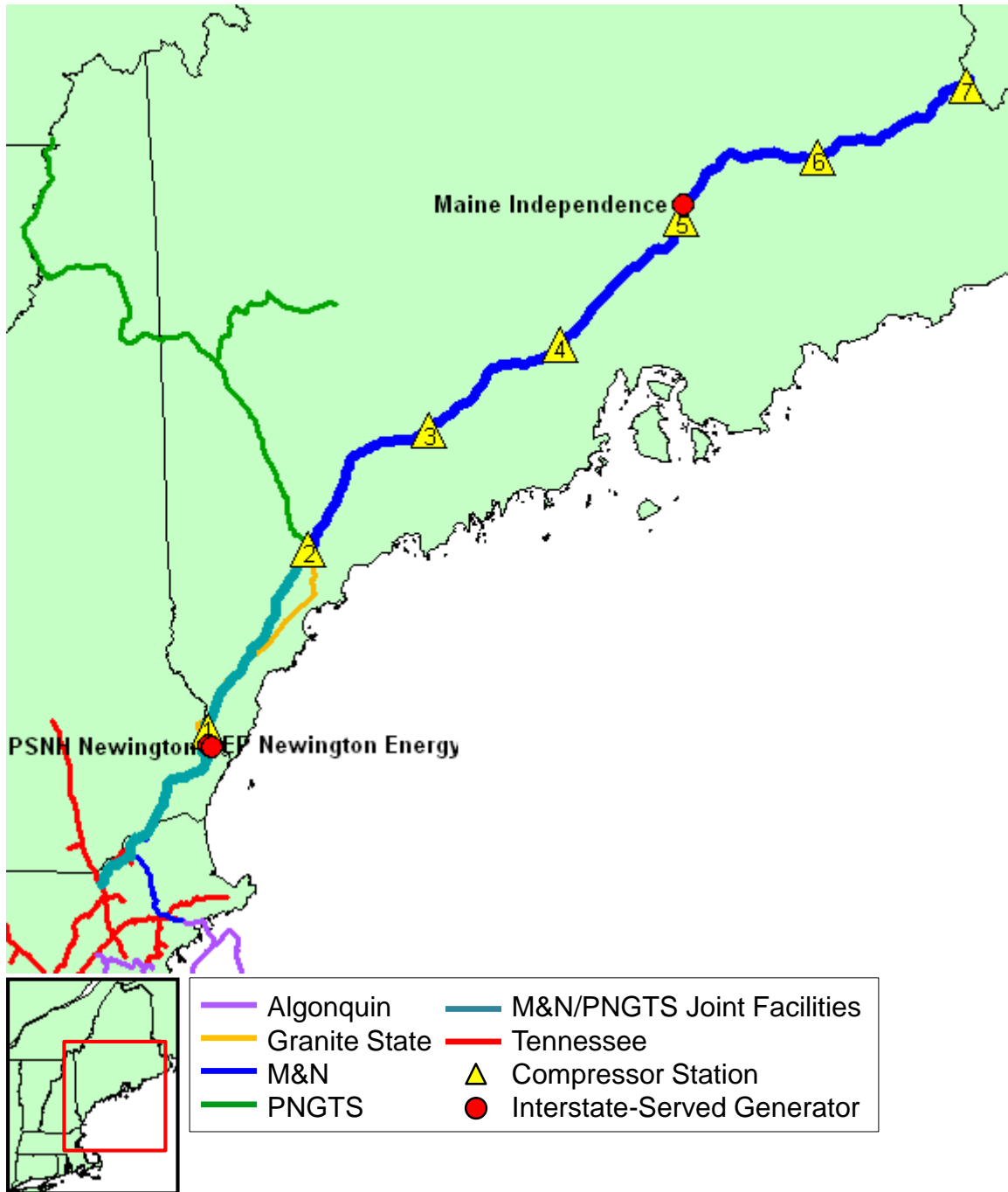


Figure A11-4. M&N Facilities

Table A11-5. ISO-NE Generators Directly Connected to M&N

Generator	Capacity (MW)	Meter Name	Meter Number
EP Newington Energy ⁶	561.0	Newington Power Meter Station	30022
Maine Independence	538.2	Casco Bay	30009
PSNH Newington ⁶	400.2	PSNH - Granite State Newington Rockingham Co.NH	30007

Table A11-6. M&N Compressor Stations in ISO-NE

ID	Name	Location
1	Eliot	Eliot, ME
2	Westbrook	Westbrook, ME
3	Richmond	Richmond, ME
4	Searsmont	Searsmont, ME
5	Brewer	Brewer, ME
6	Woodchopping Ridge	Woodchopping Ridge, ME
7	Baileyville	Baileyville, ME

⁶ EP Newington Energy and PSNH Newington are served by the M&N/PNGTS Joint Facilities System.

Portland Natural Gas Transmission System (TransCanada, Gaz Metro)

Capacity: 169 MDth/d

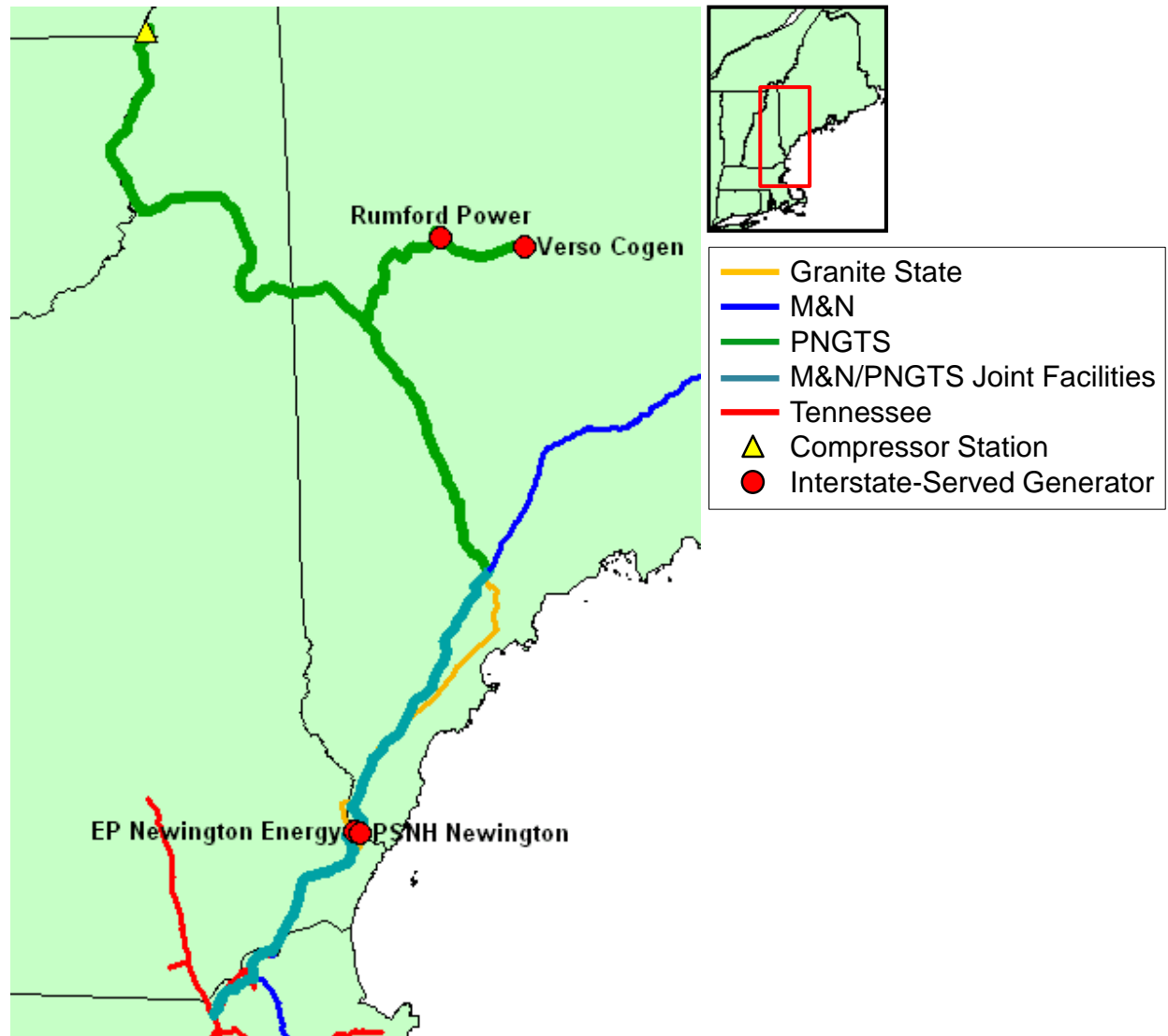


Figure A11-5. PNGTS Facilities

Table A11-7. ISO-NE Generators Directly Connected to PNGTS

Generator	Capacity (MW)	Meter Name	Meter Number
EP Newington Energy ⁷	561.0	Newington-Coned	02-0775
PSNH Newington ⁷	400.2	Newington St PSNH	02-0900
Rumford Power	269.1	Rumford Power	02-0400
Verso Cogen	167.2	Jay ME-Androscog	02-0450

⁷ EP Newington Energy and PSNH Newington are served by the M&N/PNGTS Joint Facilities System.

Tennessee Gas Pipeline (Kinder Morgan)

Capacity: 959 MDth/d (Station 261)⁸

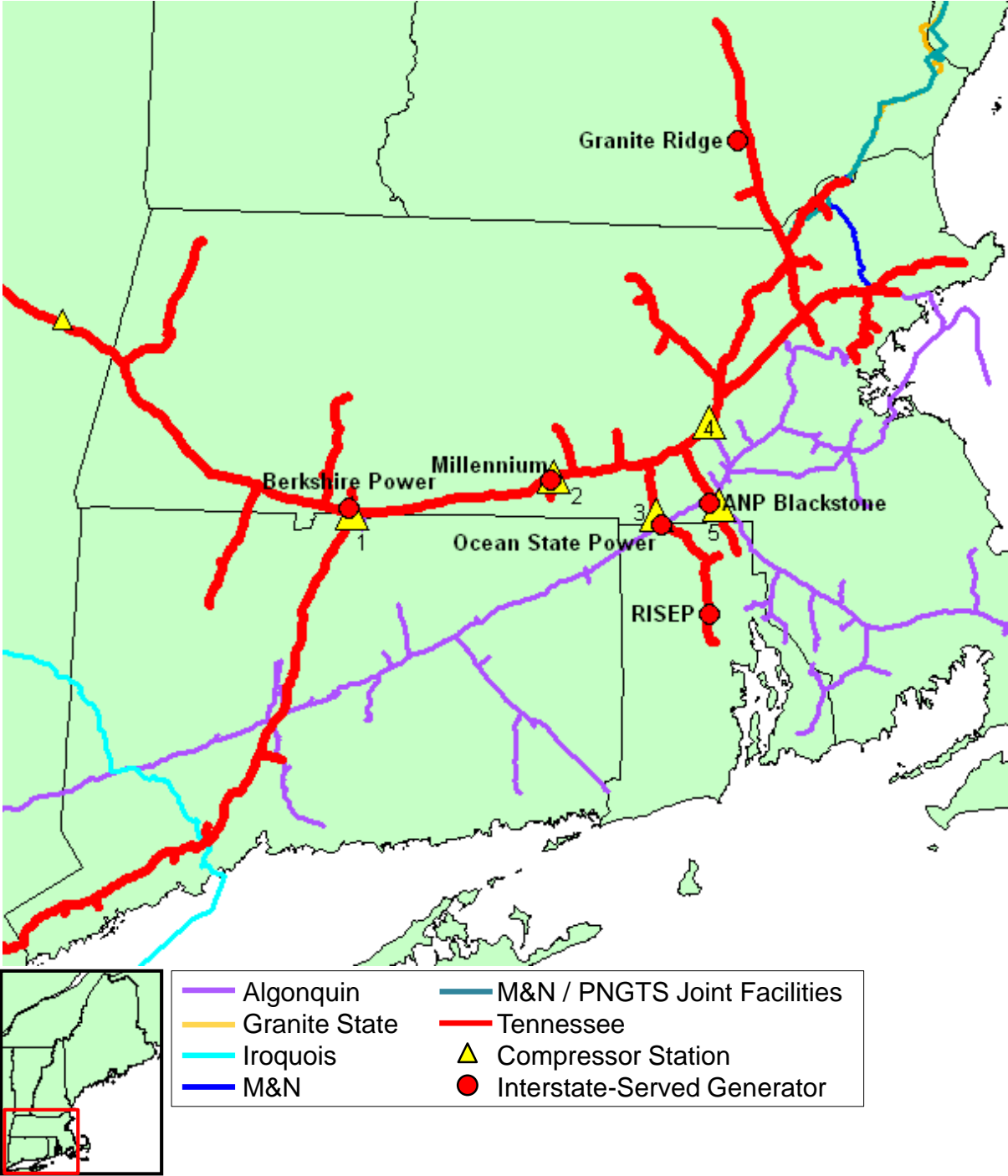


Figure A11-6. Tennessee Facilities in New England

⁸ Operationally Available Capacity – Segment Capacity:
<http://pipeline2.kindermorgan.com/Capacity/OpAvailSegment.aspx?code=TGP>

Table A11-8. ISO-NE Generators Directly Connected to Tennessee

Generator	Capacity (MW)	Meter Name	Meter Number
ANP Blackstone	514.9	GDF Suez/TGP Blackstone Worchester	420894
Berkshire Power	246.3	Hess/TGP Berkshire Power Sales Hamp	420901
Granite Ridge	770.2	Granridg/TGP Granite Ridge Rockingh	420931
Millennium	383.9	Mill Pow/TGP Millennium Power Cogen	420884
Ocean State Power ⁹	635.1	Ocean St/TGP Providence	420707
RISEP	617.0	Entrgynu/TGP FPLE RISE Providence	420926

Table A11-9. Tennessee Compressor Stations Serving ISO-NE

ID	Name	Location
1	Station 261	Agawam, MA
2	Station 264	Charlton, MA
3	Station 265E	Burrillville, RI
4	Station 267	Hopkinton, MA
5	Station 267A	Mendon, MA

⁹ Ocean State Power is directly connected to Algonquin and Tennessee.

Bangor Gas Company (EnergyWest)

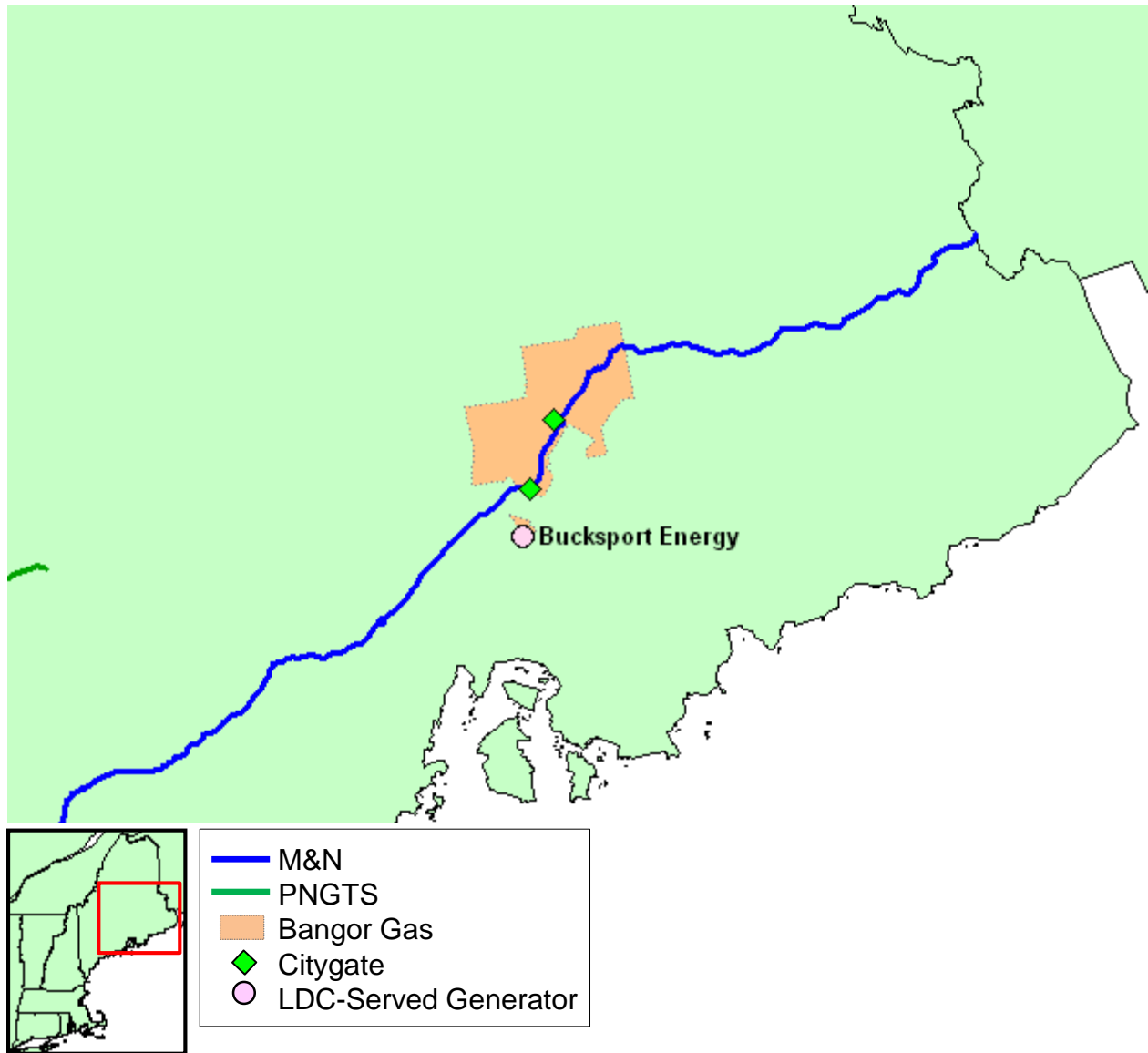


Figure A11-7. Bangor Gas Service Territory

Table A11-10. ISO-NE Generators Served by Bangor Gas

Generator	Capacity (MW)
Bucksport	153.4

Table A11-11. Bangor Gas Citygate Stations

Pipeline	Meter Name	Meter Number
M&N	Bangor Gas - Bucksport (Orrington)	30017
M&N	Bangor Gas - Veazie	30018

Berkshire Gas (UIL Holdings)

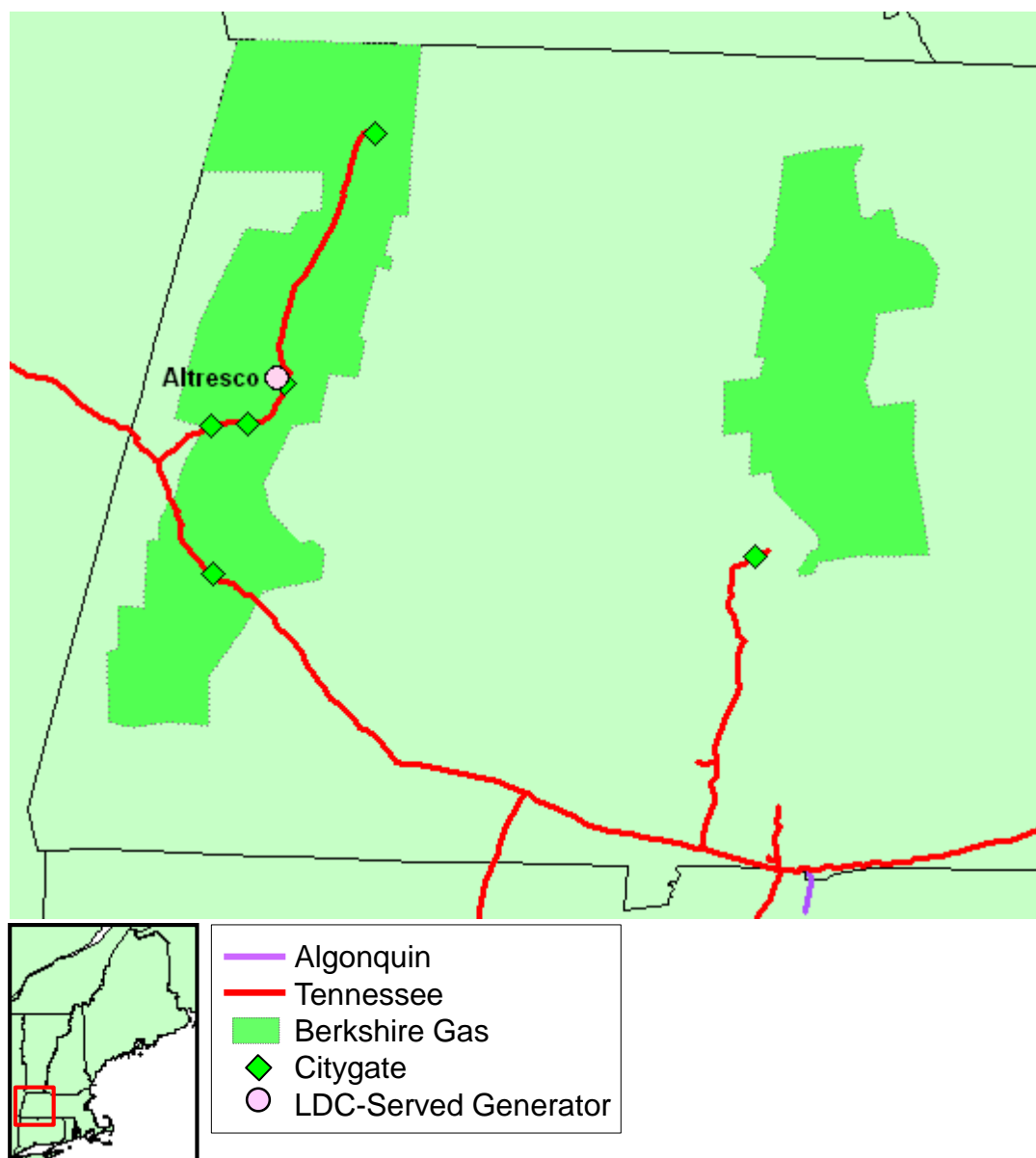


Figure A11-8. Berkshire Gas Service Territory

Table A11-12. ISO-NE Generators Served by Berkshire Gas

Generator	Capacity (MW)
Altresco Pittsfield	183.0

Table A11-13. Berkshire Gas Citygate Stations

Pipeline	Meter Name	Meter Number
Tennessee	Berkshr/TGP Pittsfield MA Berkshire	420102
Tennessee	Berkshr/TGP North Adams MA Berkshir	420103
Tennessee	Berkshr/TGP Stockbridge Sales Berks	420278
Tennessee	Berkshr/TGP Greenfield MA Hampshire	420292
Tennessee	Berkshr/TGP West Pittsfield Sales B	420638
Tennessee	Berkshr/TGP Bousquet SMS Berkshire	420747

Columbia Gas of Massachusetts (NiSource)

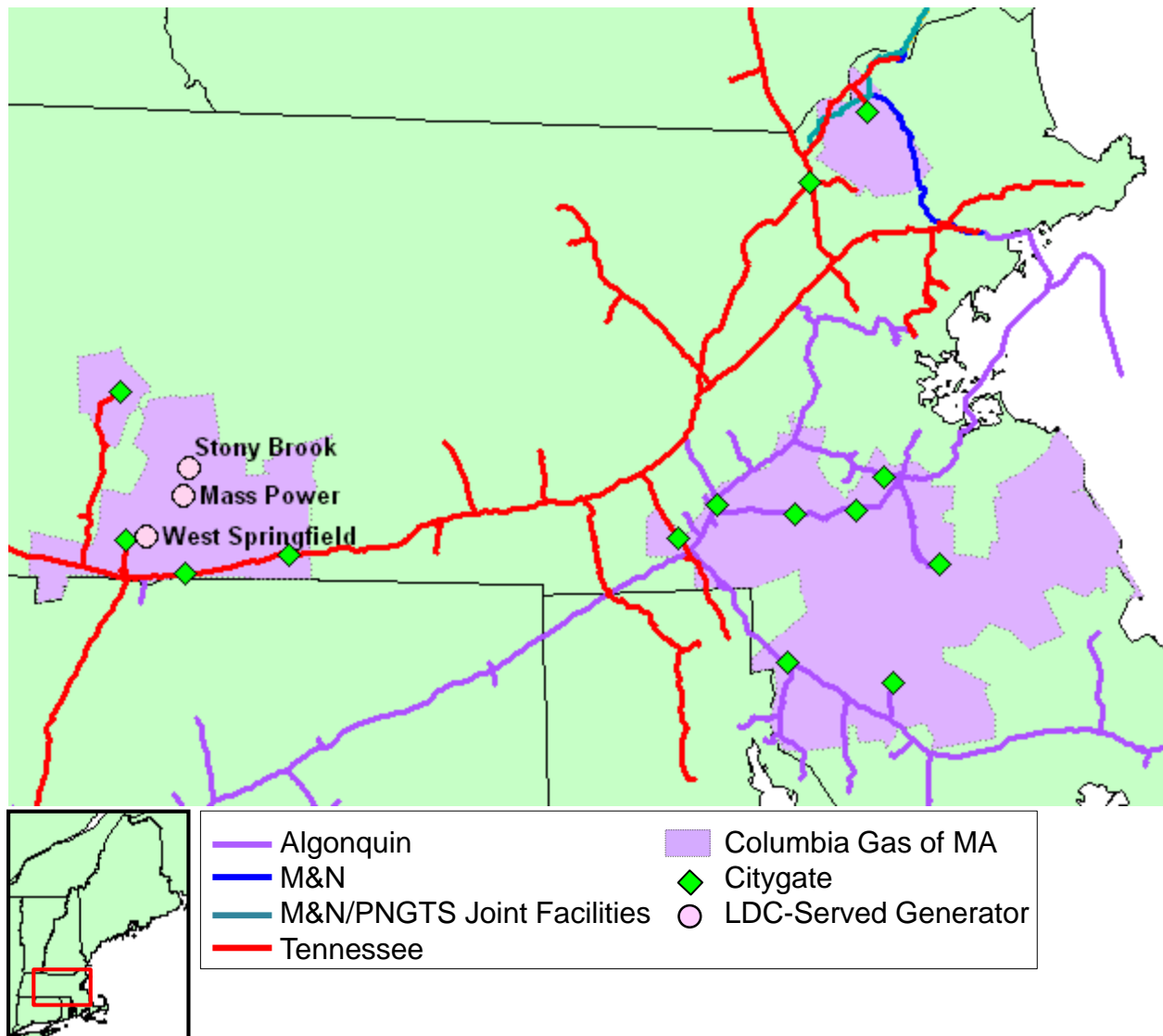


Figure A11-9. Columbia Gas of Massachusetts¹⁰ Service Territory

Table A11-14. ISO-NE Generators Served by Columbia Gas of Massachusetts

Generator	Capacity (MW)
Mass Power	279.9
Stony Brook	353.9
West Springfield	194.4

¹⁰ Previously known as Bay State Gas.

Table A11-15. Columbia Gas of Massachusetts Citygate Stations

Pipeline	Meter Name	Meter Number
Algonquin	Taunton (Bristol, MA)	11
Algonquin	Brockton (Plymouth,MA)	24
Algonquin	West Medway (Norfolk,MA)	36
Algonquin	South Attleboro (Bristol, MA)	37
Algonquin	Canton (Norfolk,MA)	58
Algonquin	Bay State Gas - Sharon Sta.-(Norfolk,MA)	823
Algonquin	Norfolk Meter Station (Norfolk,MA)	832
Tennessee	Bay St/TGP Agawam Mass Hampden	400484
Tennessee	Bay St/TGP Granite Northampton MA H	420106
Tennessee	Bay St/TGP Lawrence MA Middlesex	420121
Tennessee	Bay St/TGP East Longmeadow MA Hampd	420193
Tennessee	Bay St/TGP Brockton Sales Worchester	420631
Tennessee	Bay St/TGP Monson Sales Hampden	420751
Tennessee	Bay St/TGP Wyeth GII Essex	421025

Connecticut Natural Gas (UIL Holdings)

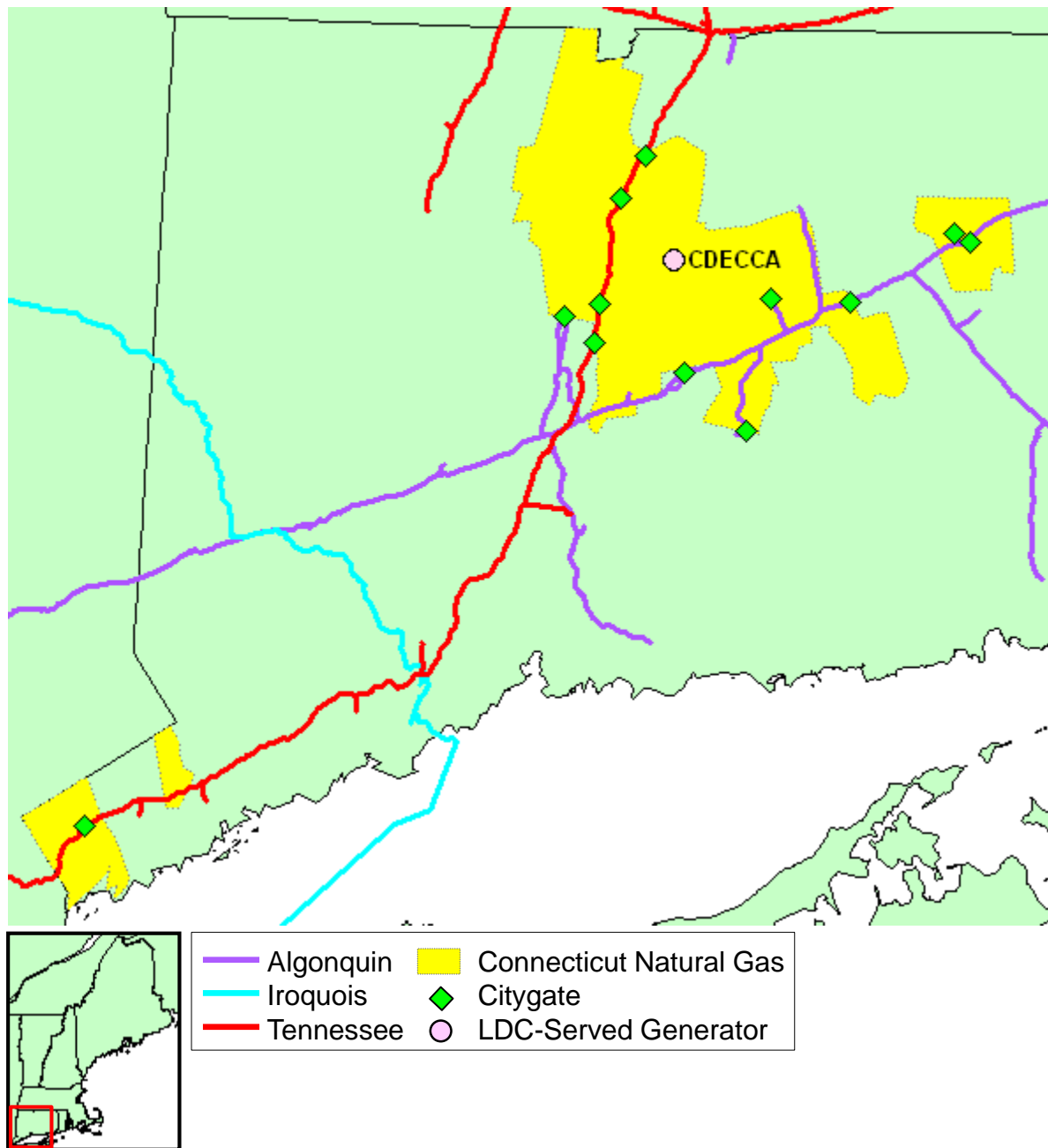


Figure A11-10. Connecticut Natural Gas Service Territory

Table A11-16. ISO-NE Generators Served by Connecticut Natural Gas

Generator	Capacity (MW)
Capital District (CDECCA)	61.3

Table A11-17. Connecticut Natural Gas Citygate Stations

Pipeline	Meter Name	Meter Number
Algonquin	Farmington (Hartford,CT)	68
Algonquin	Portland (Middlesex,CT)	72
Algonquin	Glastonbury (Hartford,CT)	75
Algonquin	Mansfield (Tolland,CT)	76
Algonquin	Cromwell (Middlesex,CT)	78
Algonquin	Hebron (Hartford,CT)	804
Algonquin	Connecticut Natural Gas-CT Meter Station	818
Algonquin	UConn Mansfield (Tolland,CT)	828
Tennessee	Conn NG/TGP Greenwich CT Fairfield	420123
Tennessee	Conn NG/TGP New Britain CT Hartford	420129
Tennessee	Conn NG/TGP Bloomfield CT Hartford	420205
Tennessee	Conn NG/TGP Putnam Lake CT Fairfiel	420217
Tennessee	Conn NG/TGP North Bloomfield CT Har	420453
Tennessee	Conn NG/TGP Farmington CT Hartford	420487

Maine Natural Gas Corporation (Iberdrola USA)

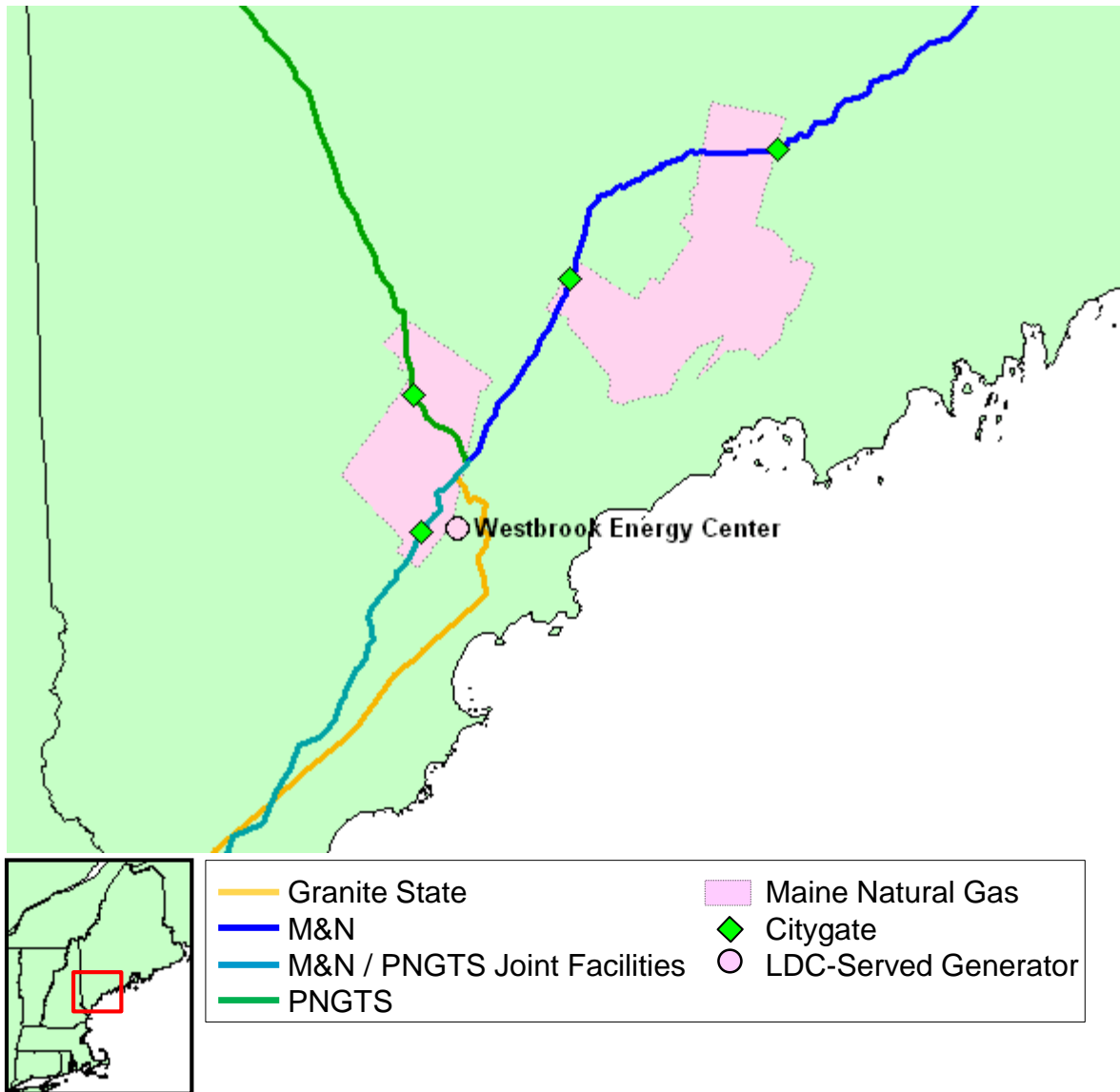


Figure A11-11. Maine Natural Gas Service Territory

Table A11-18. ISO-NE Generators Served by Maine Natural Gas

Generator	Capacity (MW)
Westbrook Energy Center	547.6

Table A11-19. Maine Natural Gas Citygate Stations

Pipeline	Meter Name	Meter Number
M&N	Maine Natgs	30019
M&N	Maine Natgs	30023
M&N	Maine Natural Gas _ Pownal - Cumberland Co. , ME	30032
M&N	Maine Nat Gas - Windsor, Kennebec Co, ME	30047
PNGTS	Windham	02-0475
PNGTS	Gorham	02-0650

National Grid

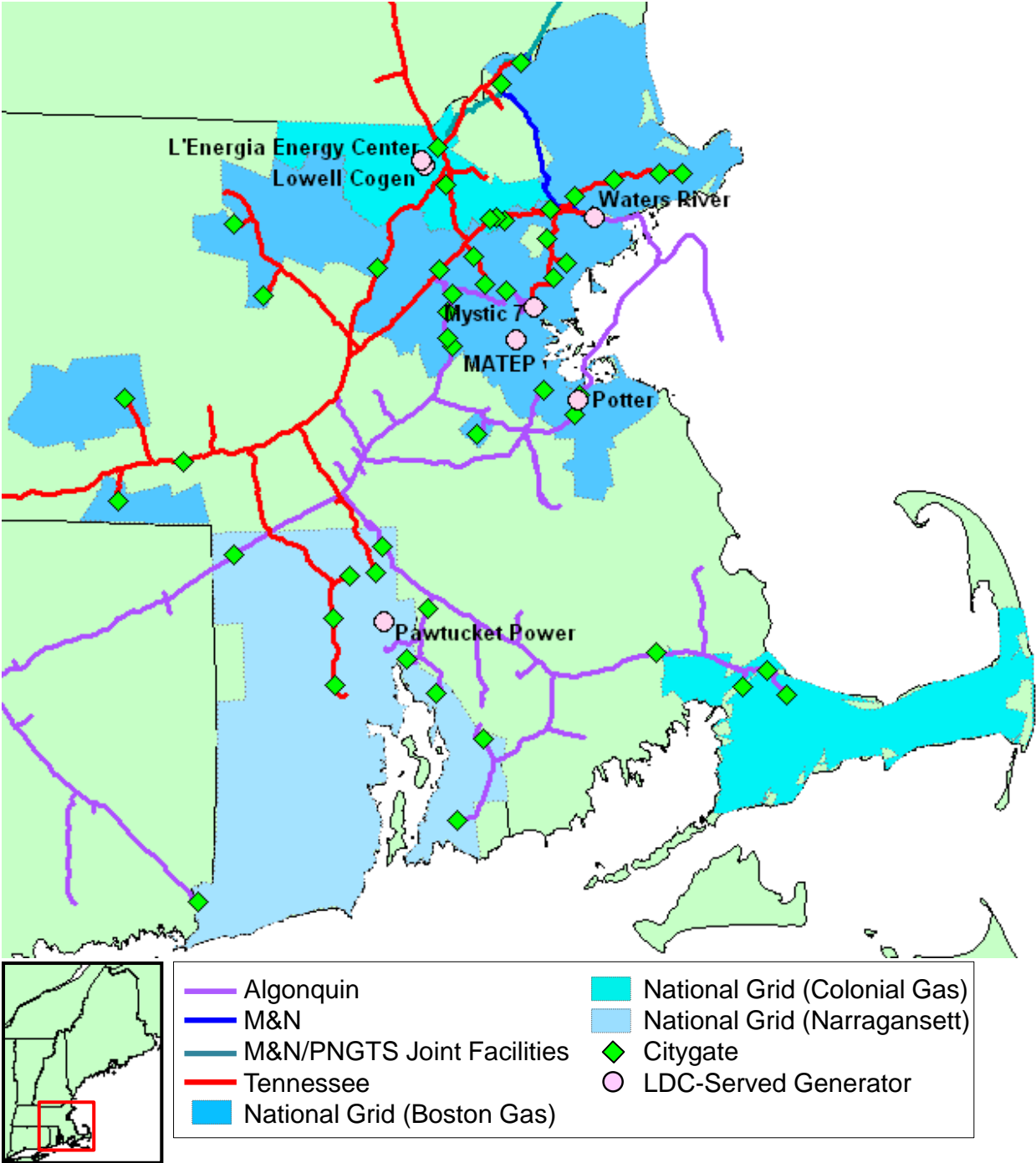


Figure A11-12. National Grid¹¹ Service Territory

¹¹ Formerly known as KeySpan Energy Delivery New England, which consolidated the operations of Boston Gas, Colonial Gas, and Narragansett Electric.

Table A11-20. ISO-NE Generators Served by National Grid

Generator	Capacity (MW)
L'Energia Energy Center	78.4
Lowell Cogen	30.2
MATEP	48.7
Mystic 7	559.8
Pawtucket Power	60.9
Potter	91.1
Waters River	67.8

Table A11-21. National Grid Citygate Stations

Pipeline	Meter Name	Meter Number
Algonquin	National Grid-Dey St. (Providence,RI)	4
Algonquin	National Grid-Westerly (Washington,RI)	8
Algonquin	National Grid - E. Providence (Providence,RI)	10
Algonquin	National Grid - Warren (Bristol,RI)	12
Algonquin	National Grid- Portsmouth (Newport,RI)	13
Algonquin	National Grid-Bourne (Barnstable,MA)	18
Algonquin	National Grid- Norwood (Norfolk,MA)	21
Algonquin	National Grid- East Braintree (Norfolk,MA)	23
Algonquin	National Grid- Everett (Middlesex,MA)	27
Algonquin	National Grid-Waltham (Middlesex,MA)	32
Algonquin	National Grid - Tiverton (Newport,RI)	33
Algonquin	National Grid-Burrillville (Providence,RI)	44
Algonquin	National Grid-Sagamore (Barnstable,MA)	51
Algonquin	National Grid-Ponkapoag (Norfolk,MA)	52
Algonquin	National Grid-Weston (Middlesex,MA)	57
Algonquin	National Grid-Barrington (Providence,RI)	64
Algonquin	National Grid-Wellesley (Norfolk,MA)	74
Algonquin	National Grid-Polaroid (Middlesex,MA)	80
Algonquin	National Grid-Potter St. (Norfolk,MA)	81
Algonquin	National Grid-Cumberland (Providence,RI)	83
Algonquin	National Grid-Medford (Middlesex,MA)	89
Algonquin	National Grid-Rochester (Plymouth,MA)	813
Algonquin	National Grid-Weymouth (Norfolk,MA)	827
Algonquin	National Grid-Sandwich (Barnstable,MA)	829
M&N	National Grid-Haverhill Meter Station (Essex,MA)	30027
PNGTS	Haverhill	05-1025
Tennessee	Bostn/TGP Southbridge MA Worcester	420108
Tennessee	Bostn/TGP Clinton MA Worcester	420110
Tennessee	Bostn/TGP Leominster MA Worcester	420111
Tennessee	Bostn/TGP Arlington MA Middlesex	420115
Tennessee	Bostn/TGP Revere MA Middlesex	420116

Pipeline	Meter Name	Meter Number
Tennessee	Bostn/TGP Lynn MA Essex	420117
Tennessee	Bostn/TGP Beverly Salem MA Essex	420118
Tennessee	Bostn/TGP Gloucester MA Essex	420119
Tennessee	Bostn/TGP Haverhill MA Essex	420122
Tennessee	Bostn/TGP Reading MA Middlesex	420136
Tennessee	Bostn/TGP Wenham MA Essex	420138
Tennessee	Bostn/TGP Tewksbury MA Middlesex	420139
Tennessee	Bostn/TGP Spencer MA Worcester	420191
Tennessee	Bostn/TGP Lexington MA Middlesex	420192
Tennessee	Bostn/TGP Essex MA Essex	420323
Tennessee	Bostn/TGP Burlington MA Middlesex	420341
Tennessee	Bostn/TGP Lynn Field MA Essex	420343
Tennessee	Bostn/TGP West Peabody MA Essex	420389
Tennessee	Bostn/TGP Wilmington MA Middlesex	420532
Tennessee	Bostn/TGP Dracut MA Middlesex	420572
Tennessee	Bostn/TGP Acton Sales Middlesex	420611
Tennessee	Bostn/TGP Peabody Sales Essex	420658
Tennessee	Bostn/TGP Camp Curtis Essex	420808
Tennessee	Bostn/TGP Danvers Essex	420935
Tennessee	Bostn/TGP Lunenburg Worcester	420949
Tennessee	Bostn/TGP Oxford Sales Worcester	421023
Tennessee	Narngst/TGP PawtucketRIProvidence	420135
Tennessee	Narngst/TGP Cranston Sales Providen	420750
Tennessee	Narngst/TGP Lincoln Sms Providence	420758
Tennessee	Narngst/TGP Smithfield Delivery Pro	420910

NSTAR Gas (Northeast Utilities)

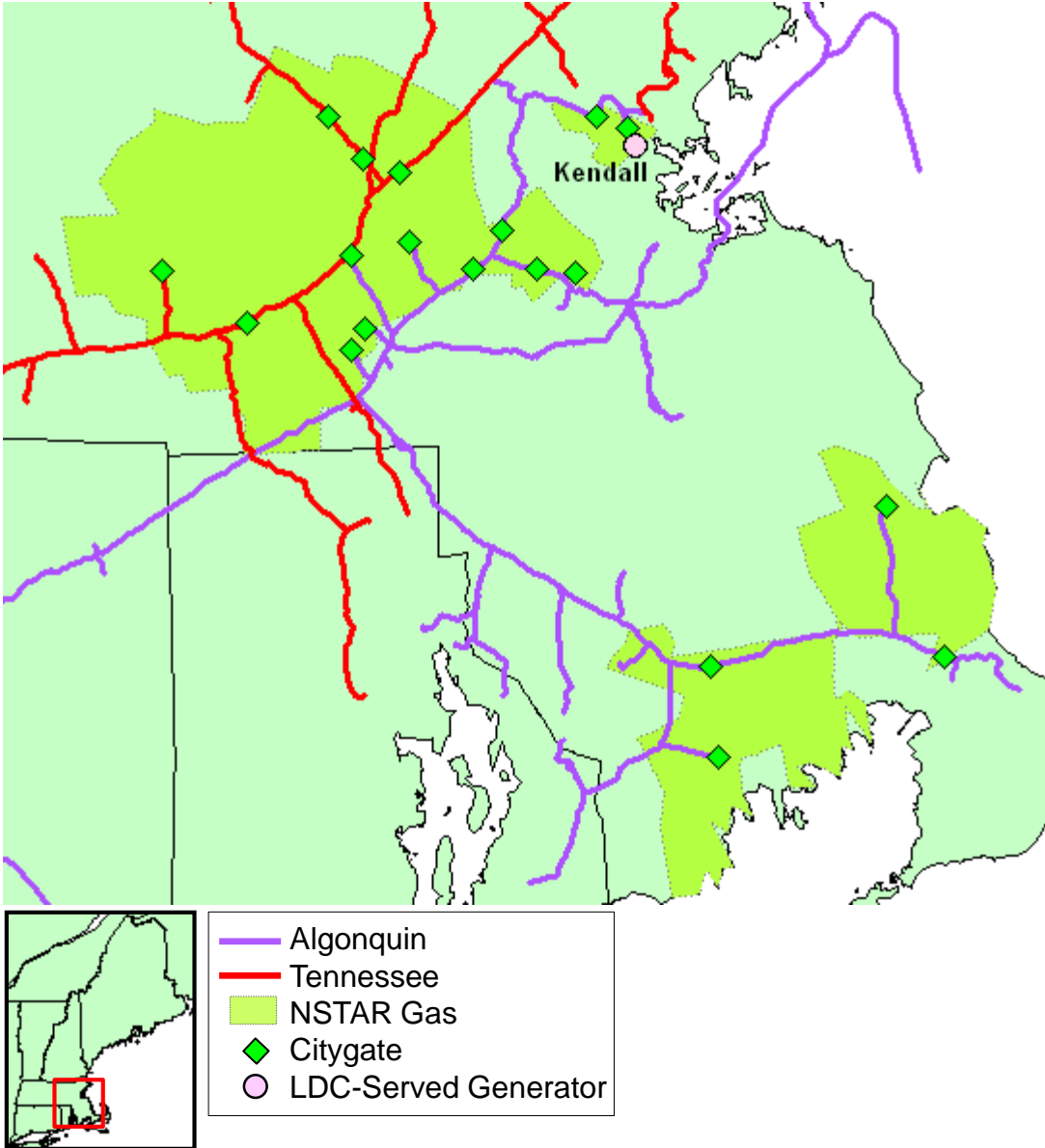


Figure A11-13. NSTAR Gas Service Territory

Table A11-22. ISO-NE Generators Served by NSTAR Gas

Generator	Capacity (MW)
Kendall	244.1

Table A11-23. NSTAR Gas Citygate Stations

Pipeline	Meter Name	Meter Number
Algonquin	Freetown (Bristol,MA)	15
Algonquin	New Bedford (Bristol,MA)	17
Algonquin	Plymouth (Plymouth,MA)	19
Algonquin	Milford (Worcester,MA)	20
Algonquin	Westwood (Norfolk, MA)	22
Algonquin	Hopedale (Norfolk,MA)	25
Algonquin	Brookford St (Middlesex,MA)	28
Algonquin	Charles River Rd (Norfolk,MA)	38
Algonquin	Ashland (Middlesex,MA)	43
Algonquin	Woodland Rd (Norfolk,MA)	61
Algonquin	Dover (Norfolk,MA)	66
Algonquin	Pinehills Meter - (Plymouth,MA)	821
Algonquin	Mystic (Middlesex,MA)	826
Algonquin	Marathon (Middlesex,MA)	830
Tennessee	NSTAR/TGP Worcester MA Worchester	420109
Tennessee	NSTAR/TGP Hudson MA Middlesex	420204
Tennessee	NSTAR/TGP Farnumsville MA Worcheste	420259
Tennessee	NSTAR/TGP Hopkinton Middlesex	420509
Tennessee	NSTAR/TGP Marlborough Middlesex	421007
Tennessee	NSTAR/TGP Route 9 Framingham Middle	421035

Southern Connecticut Gas (UIL Holdings)

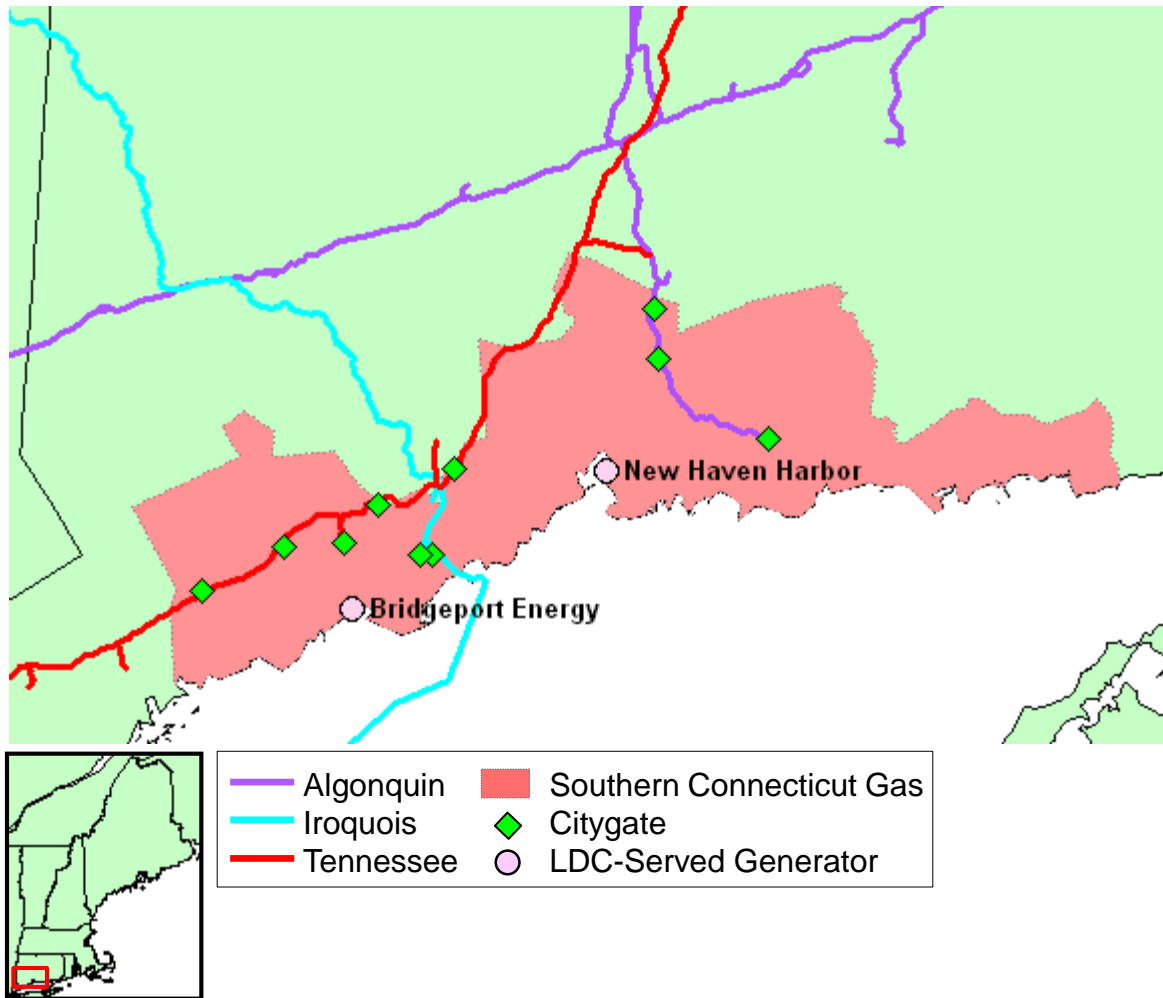


Figure A11-14. Southern Connecticut Gas Service Territory

Table A11-24. ISO-NE Generators Served by Southern Connecticut Gas

Generator	Capacity (MW)
Bridgeport Energy	533.7
New Haven Harbor	599.2

Table A11-25. Southern Connecticut Gas Citygate Stations

Pipeline	Meter Name	Meter Number
Algonquin	North Haven (New Haven)	3
Algonquin	Milford, Ct.	14
Algonquin	Guilford (New Haven,Ct)	30
Algonquin	Defco (New Haven,Ct)	77
Algonquin	North Haven Low Pressure (New Haven,Ct)	807
Iroquois	Milford	68101
Iroquois	Stratford → River Road	245206
Tennessee	Conn NG/TGP Bridgeport CT Fairfield	420126
Tennessee	Conn NG/TGP Bloomfield CT Hartford	420205
Tennessee	Conn NG/TGP Trumbull CT Fairfield	420313
Tennessee	Conn NG/TGP Milford CT New Haven	420425
Tennessee	Conn NG/TGP West Port CT Fairfield	420490
Tennessee	Conn NG/TGP Easton Sms Fairfield	420853

Yankee Gas Services Company (Northeast Utilities)

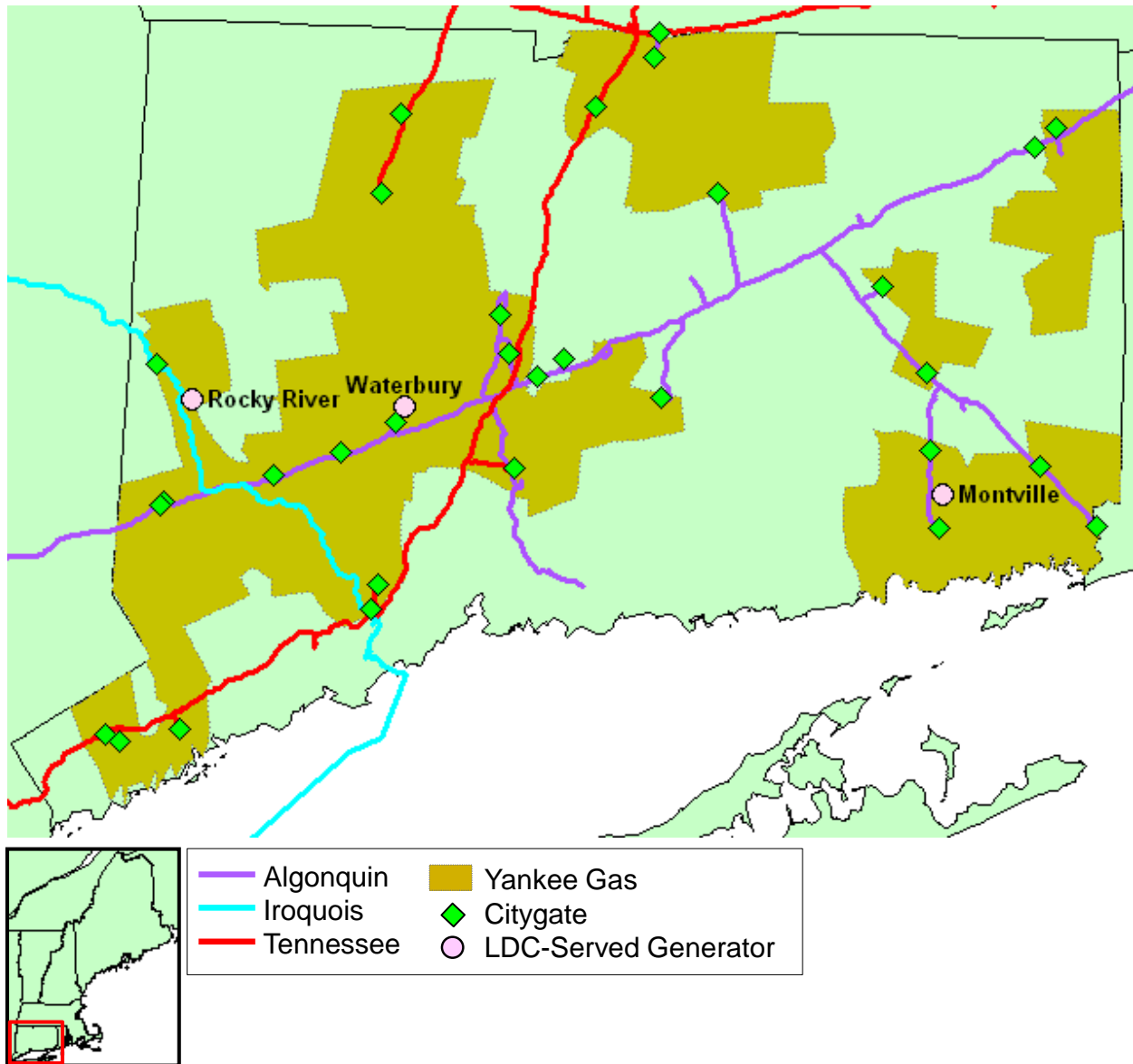


Figure A11-15. Yankee Gas Service Territory

Table A11-26. ISO-NE Generators Served by Yankee Gas

Generator	Capacity (MW)
Montville	81.6
Kimberly Clark (Rocky River)	15.1
Waterbury	98.7

Table A11-27. Yankee Gas Citygate Stations

Pipeline	Meter Name	Meter Number
Algonquin	Waterbury (New Haven,CT)	2
Algonquin	Willimantic (New Haven, Ct)	5
Algonquin	Waterford (New London,CT)	7
Algonquin	Putnam (Windham,CT)	9
Algonquin	Kennington (New Haven,CT)	31
Algonquin	Pomfret (Windham,CT)	50
Algonquin	Montville (New London,CT)	59
Algonquin	Southington (Hartford,CT)	60
Algonquin	Vernon (Tolland,CT)	62
Algonquin	Danbury (Fairfield,CT)	63
Algonquin	Oxford (New Haven, Ct)	69
Algonquin	Southbury (New Haven,CT)	79
Algonquin	Stonington (New London,CT)	82
Algonquin	Bristol (Hartford,CT)	85
Algonquin	East To West Montville	259
Algonquin	Franklin (New London,CT)	805
Algonquin	Middletown - Yankee Energy Systems - Cromwell (Fairfield,CT)	819
Algonquin	West Danbury (Fairfield,CT)	835
Iroquois	New Milford	67578
Iroquois	Shelton B	68100
Tennessee	Yank Gas/TGP Stanford CT Fairfield	420124
Tennessee	Yank Gas/TGP Norwalk CT Fairfield	420125
Tennessee	Yank Gas/TGP Derby CT Fairfield	420127
Tennessee	Yank Gas/TGP Wallingford CT New Hav	420128
Tennessee	Yank Gas/TGP Winsted CT Litchfield	420130
Tennessee	Yank Gas/TGP Torrington CT Litchfie	420131
Tennessee	Yank Gas/TGP Danbury CT Fairfield	420286
Tennessee	Yank Gas/TGP Thompsonville CT Exch	420318
Tennessee	Yank Gas/TGP Long Ridge CT Fairfiel	420434
Tennessee	Yank Gas/TGP East Granby Sales Hart	420637
Tennessee	Yank Gas/TGP Thompsonville No. 2 Bo	421076

Appendix 12

Gas Infrastructure Serving Generation in TVA

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Data Sources:

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

American Midstream (AlaTenn)

Capacity: 206 MDth/d¹

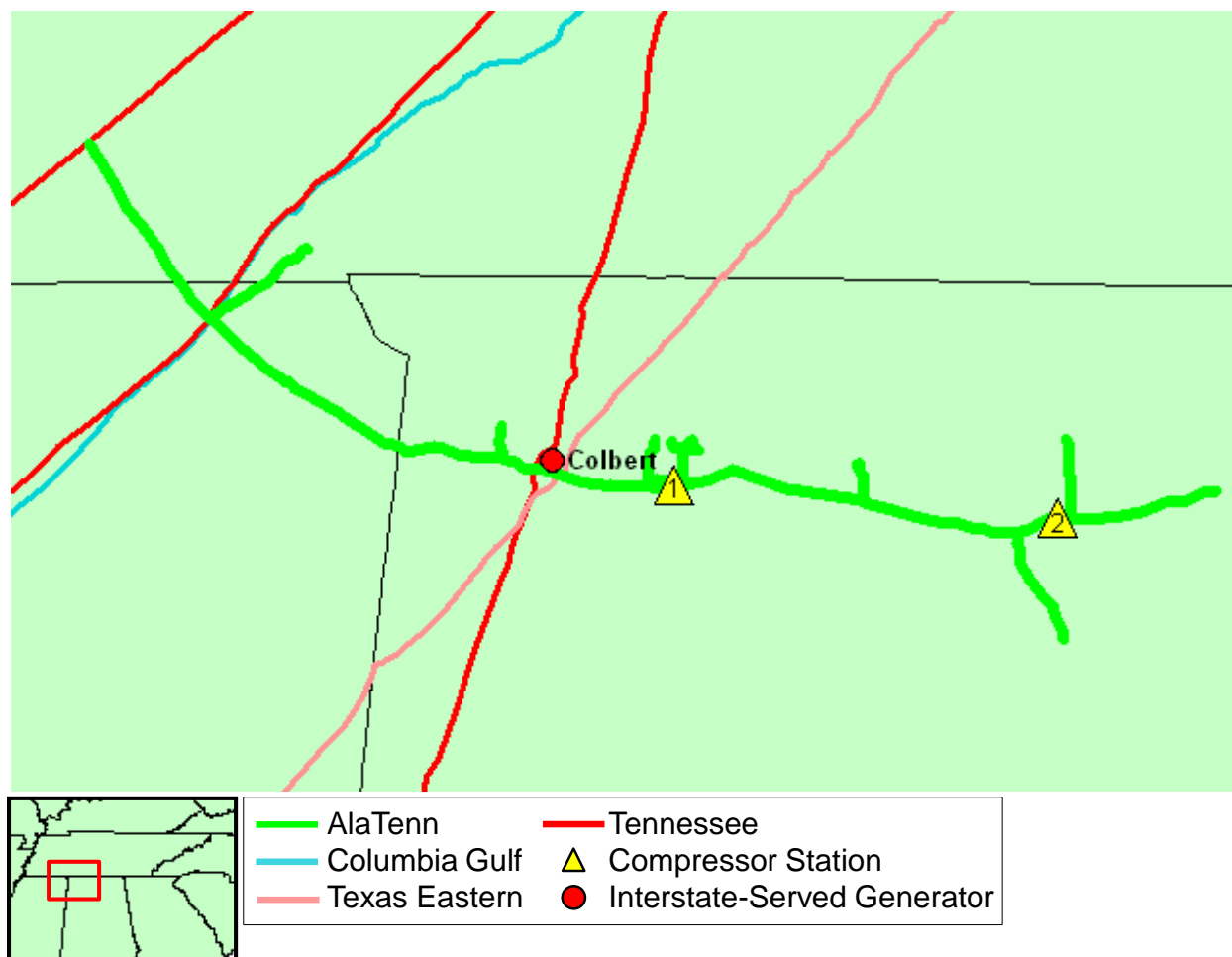


Figure A12-1. American Midstream (AlaTenn) Facilities

Table A12-1. TVA Generators Directly Connected to AM AlaTenn

Generator	Capacity (MW)	Meter Name	Meter Number
Colbert	464	TVA Turbines Delivery	124103

Table A12-2. AM AlaTenn Compressor Stations in TVA

ID	Name	Location
1	Colbert	Muscle Shoals, AL
2	Decatur	Tanner, AL

¹ Because AM AlaTenn is dependent on delivery pressures from Columbia, Tennessee and Texas Eastern, it normally operates at a much lower volume of flow. The total firm transportation service reported to FERC in 2014 was 66 MDth/d.

ANR Pipeline Company (TransCanada)

Capacity: 1,023 MDth/d (SEML – N of Brownsville)²

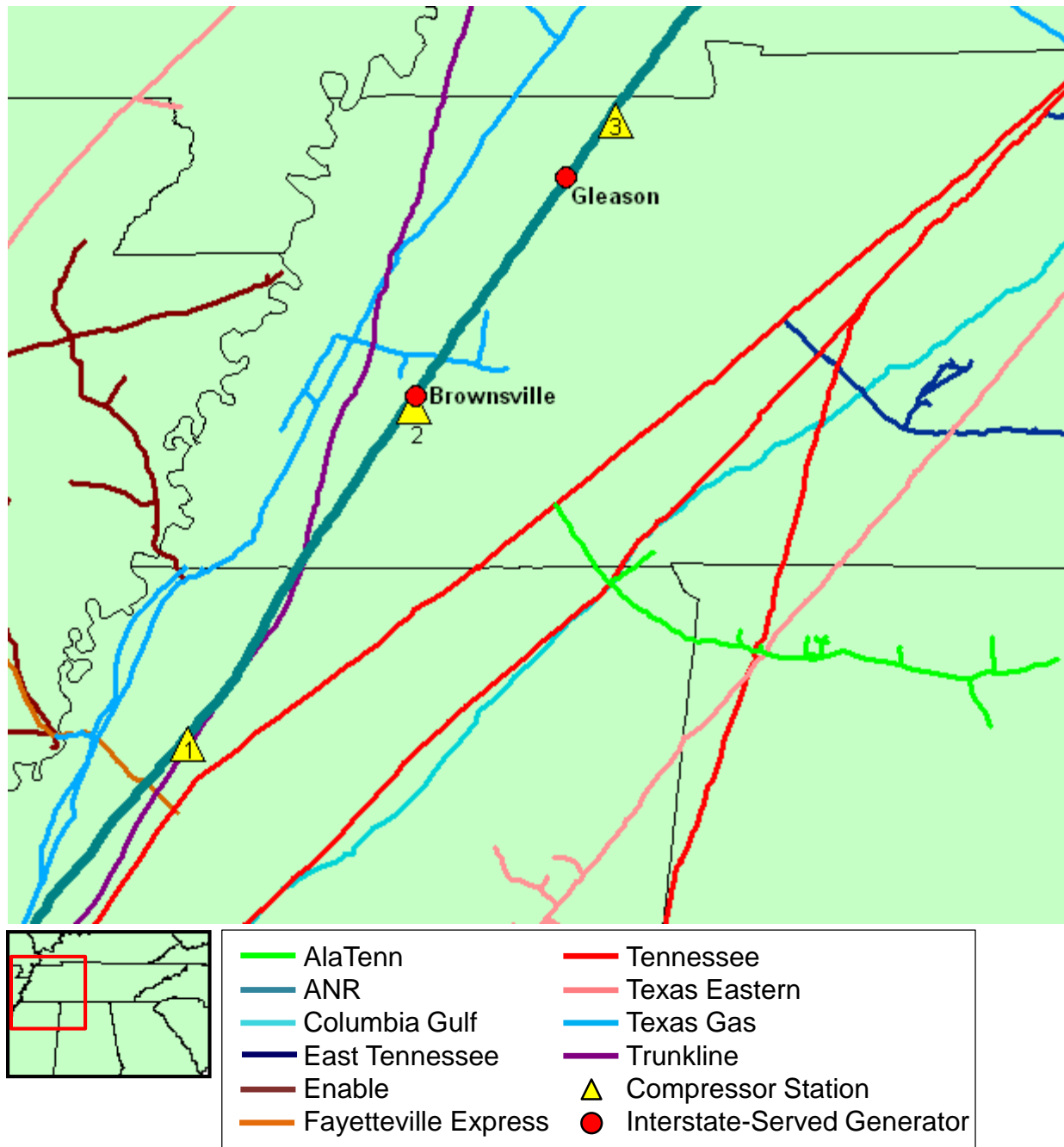


Figure A12-2. ANR Facilities in TVA

² Operationally Available Capacity:
<http://anrebb.transcanada.com/AvailCap/AvailCap.asp?sPipelineCode=ANR>

Table A12-3. TVA Generators Directly Connected to ANR

Generator	Capacity (MW)	Meter Name	Meter Number
Brownsville	496	Brownsville Interconnect	261572
Gleason	360	Weakley County Int	274229

Table A12-4. ANR Compressor Stations in TVA

ID	Name	Location
1	Sardis	Sardis, MS
2	Brownsville	Brownsville, TN
3	Cottage Grove	Cottage Grove, TN

Columbia Gulf Transmission (NiSource)

Capacity: 2,156 MMcf/d

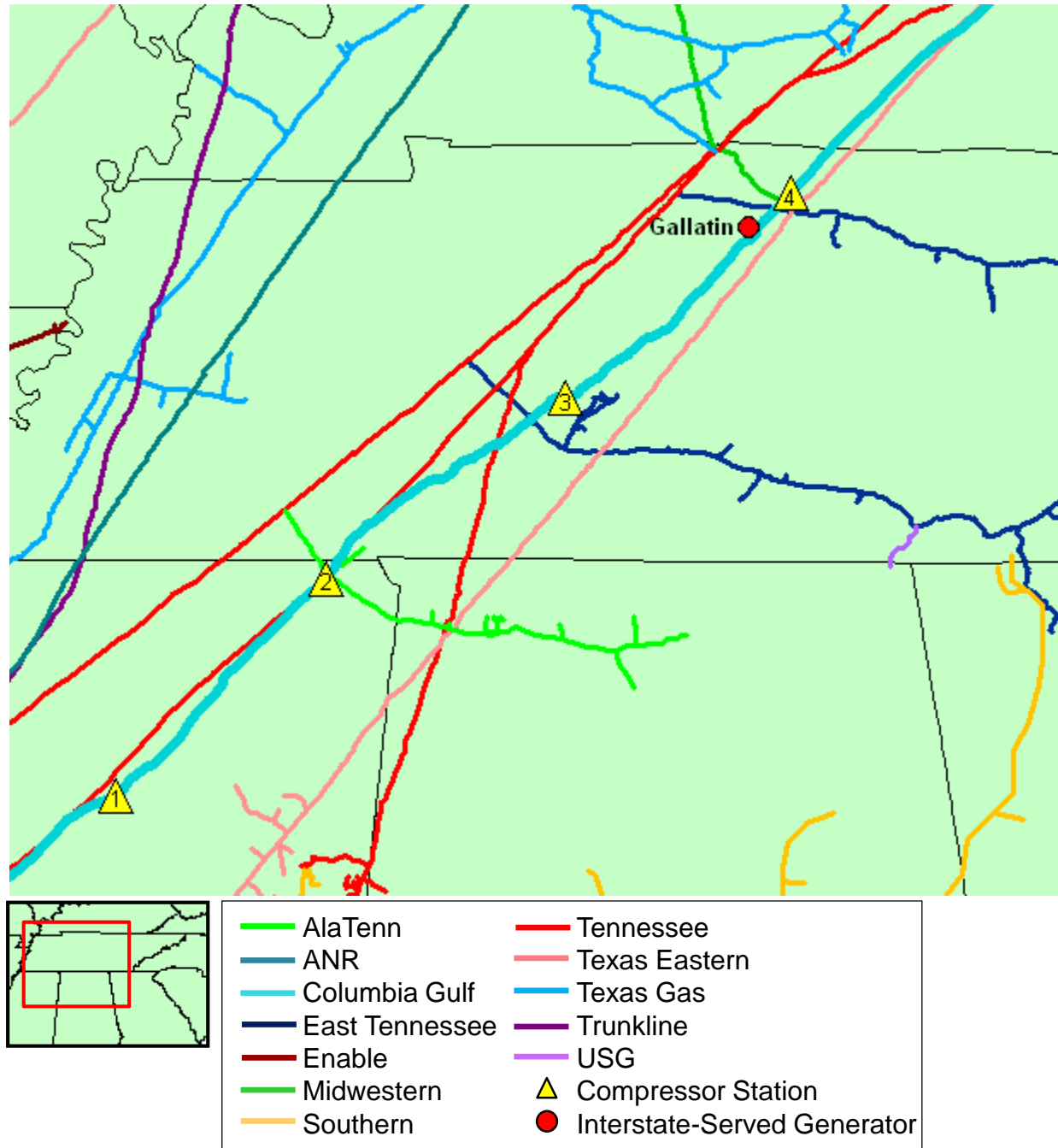


Figure A12-3. Columbia Gulf Facilities in TVA

Table A12-5. TVA Generators Directly Connected to Columbia Gulf

Generator	Capacity (MW)	Meter Name	Meter Number
Gallatin	752	TVA -- Wilson	4153

Table A12-6. Columbia Gulf Compressor Stations in TVA

ID	Name	Location
1	Banner	Valley, MS
2	Corinth	Corinth, MS
3	Hampshire	Hampshire, TN
4	Hartsville	Hartsville, TN

East Tennessee Natural Gas (Spectra Energy)

Capacity: 1,745 MDth/d

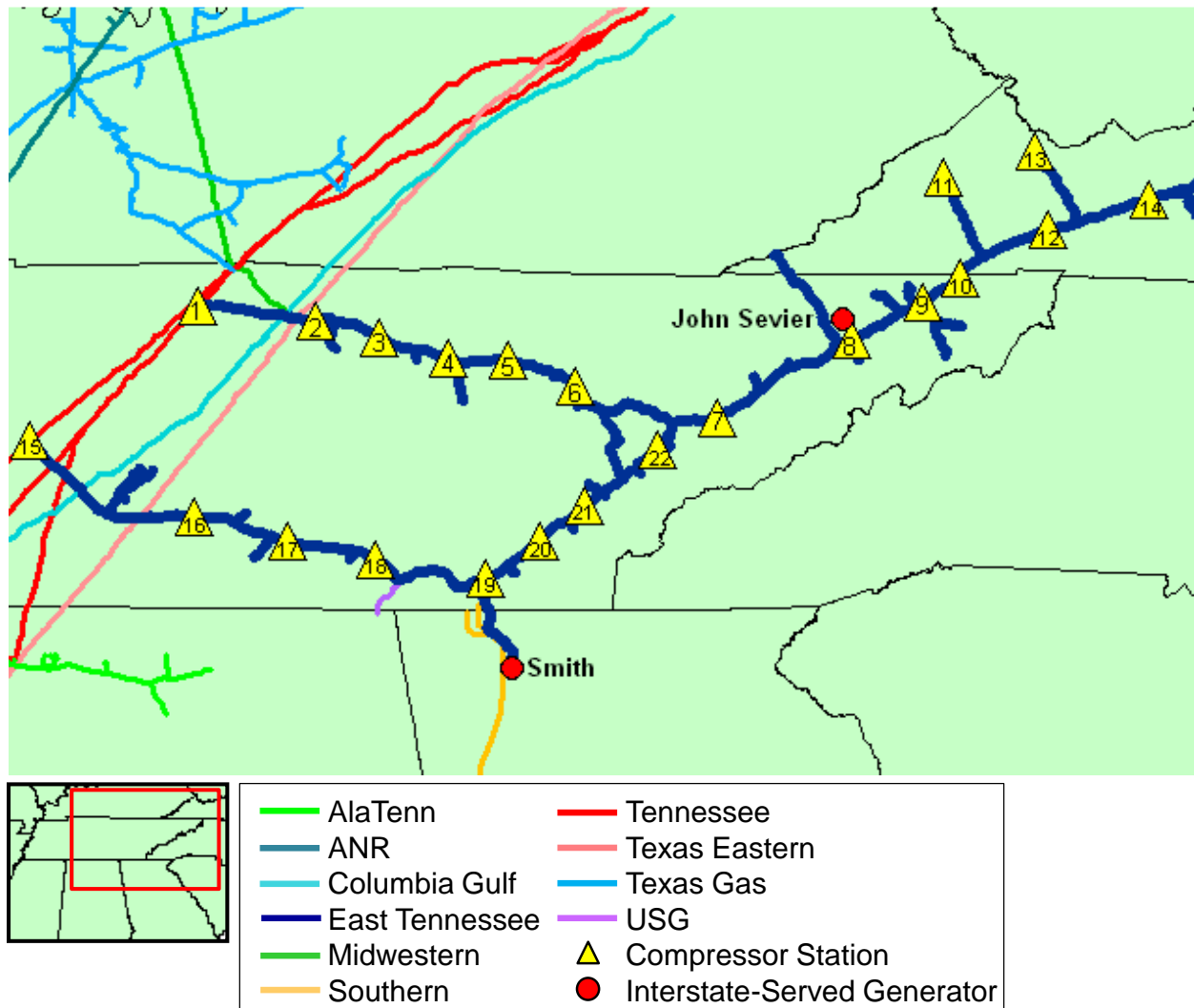


Figure A12-4. East Tennessee Facilities in TVA

Table A12-7. TVA Generators Directly Connected to East Tennessee

Generator	Capacity (MW)	Meter Name	Meter Number
John Sevier	955	TVA - John Sevier	59219
Smith	1,250	Thomas A. Smith Energy Facility-Murray Co., GA	59199

Table A12-8. East Tennessee Compressor Stations in TVA

ID	Name	Location
1	Ridgetop	Greenbrier, TN
2	Dixon Springs	Hartsville, TN
3	Gainesboro	Gainesboro, TN
4	Monterey	Monterey, TN
5	Clark Range	Clark Range, TN
6	Wartburg	Wartburg, TN
7	Boyd Creek	Sevierville, TN
8	Flatwoods	Mosheim, TN
9	Fordtown	Kingsport, TN
10	Bristol	Bristol, TN
11	Nora	Nora, VA
12	Glade Spring	Glade Spring, VA
13	Jewell Ridge	Jewell Ridge, VA
14	Rural Retreat	Rural Retreat, VA
15	Lobelville	Lobelville, TN
16	Lewisburg	Belfast, TN
17	Estill Springs	Winchester, TN
18	Tracy City	Jasper, TN
19	Ooltewah	Ooltewah, TN
20	Calhoun	Calhoun, TN
21	Madisonville	Madisonville, TN
22	Maryville	Maryville, TN

Midwestern Gas Transmission (ONEOK)

Capacity: 513 MMcf/d (South to North) / 635 MMcf/d (North to South)³

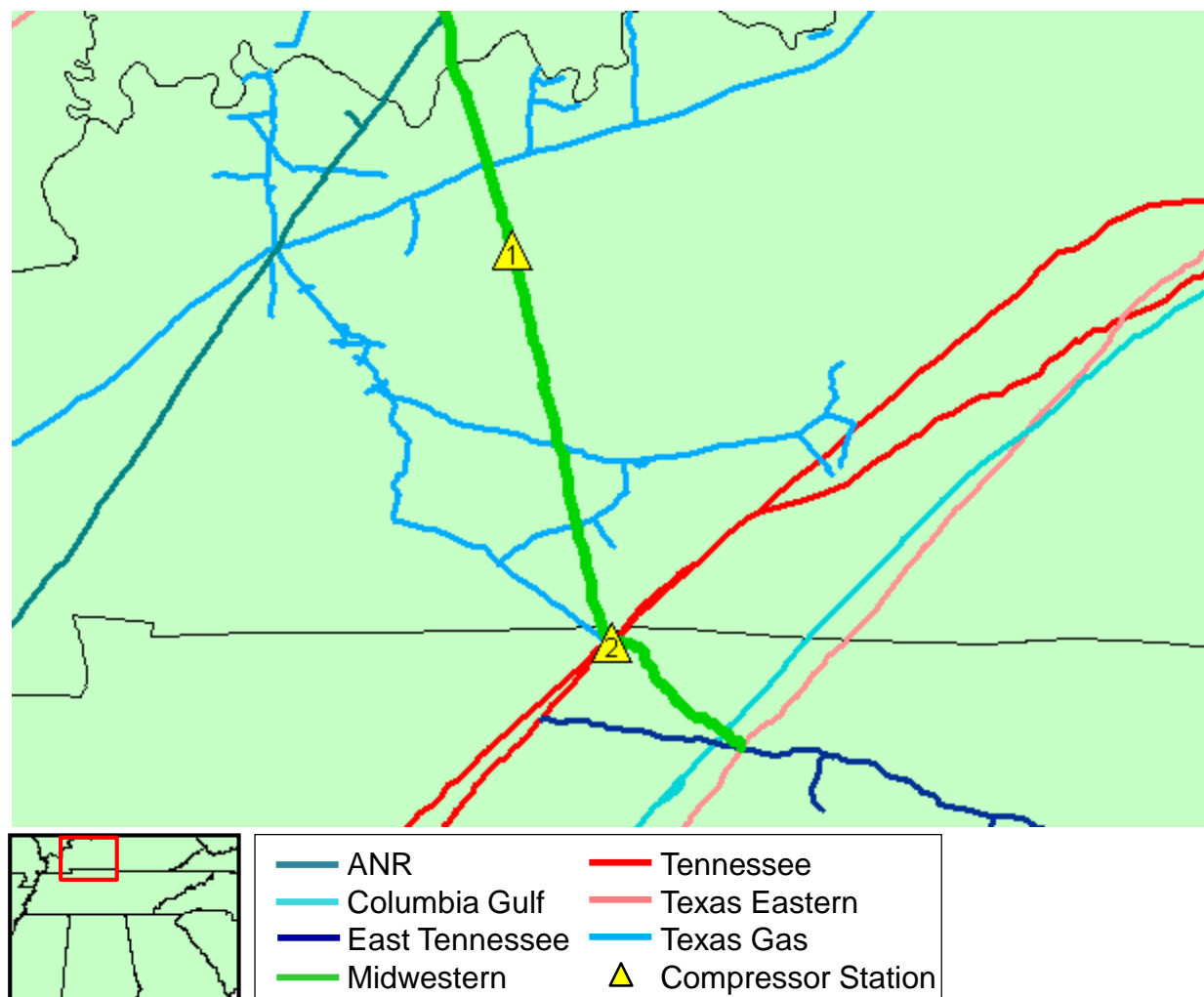


Figure A12-5. Midwestern Facilities in TVA

Table A12-9. Midwestern Compressor Stations in TVA

ID	Name	Location
1	Hartford	Hartford, KY
2	Portland	Portland, TN

³ Midwestern’s Eastern Extension, the segment southeast of the Portland Compressor Station, has a south-to-north capacity of 70 MMcf/d and a north-to-south capacity of 120 MMcf/d.

Southern Natural Gas (Kinder Morgan)

Capacity: 3,940 MMcf/d

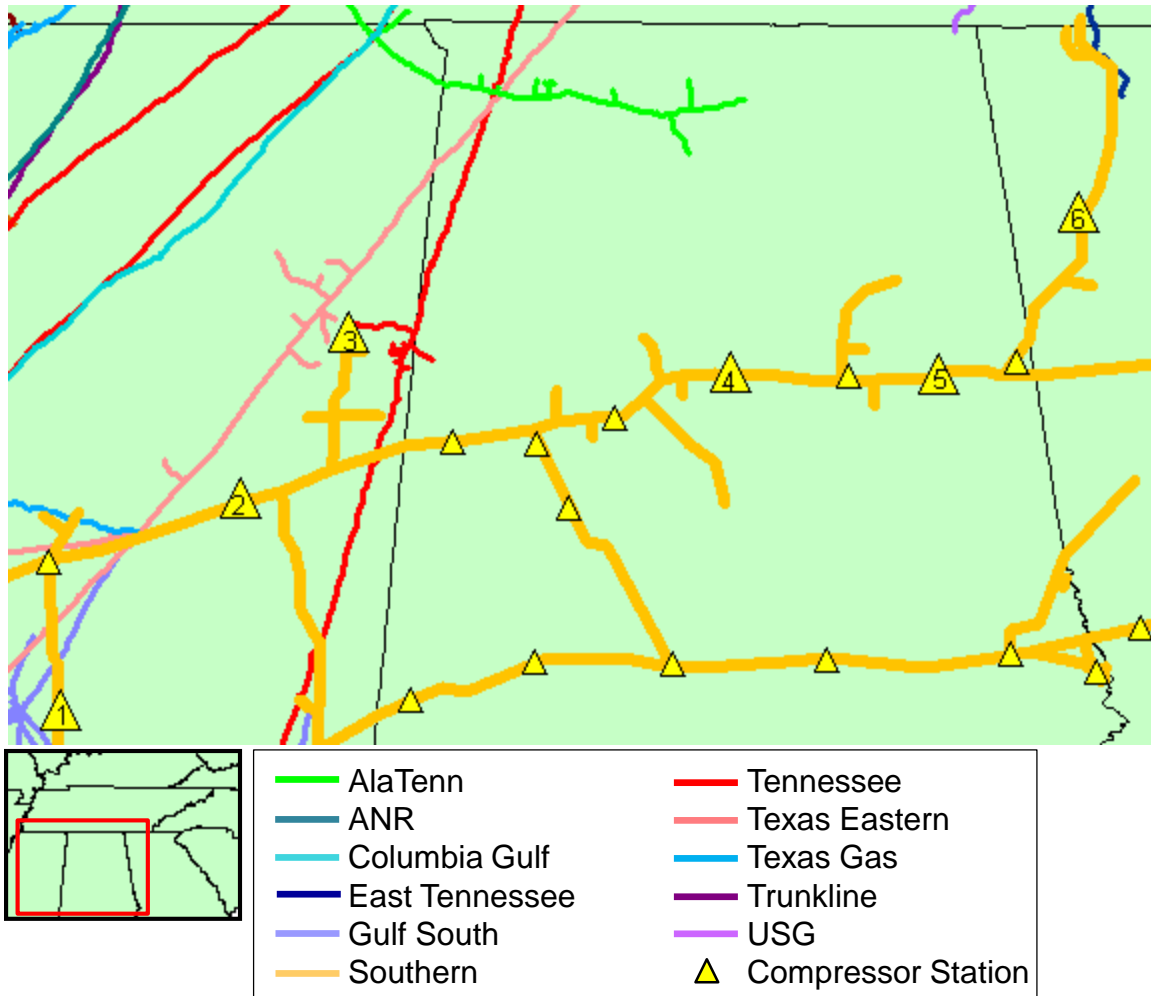


Figure A12-6. Southern Natural Gas Facilities in TVA

Table A12-10. Southern Compressor Stations in TVA

ID	Name	Location
1	Rankin	Brandon, MS
2	Louisville	Louisville, MS
3	Muldon Storage	Prairie, MS
4	Tarrant	Tarrant, AL
5	Dearmanville	Anniston, AL
6	Rome	Rome, GA

Tennessee Gas Pipeline (Kinder Morgan)

Capacity: 1,542 MDth/d (Station 63), 650 MDth/d (Station 847), 1,600 MDth/d (Station 542)⁴

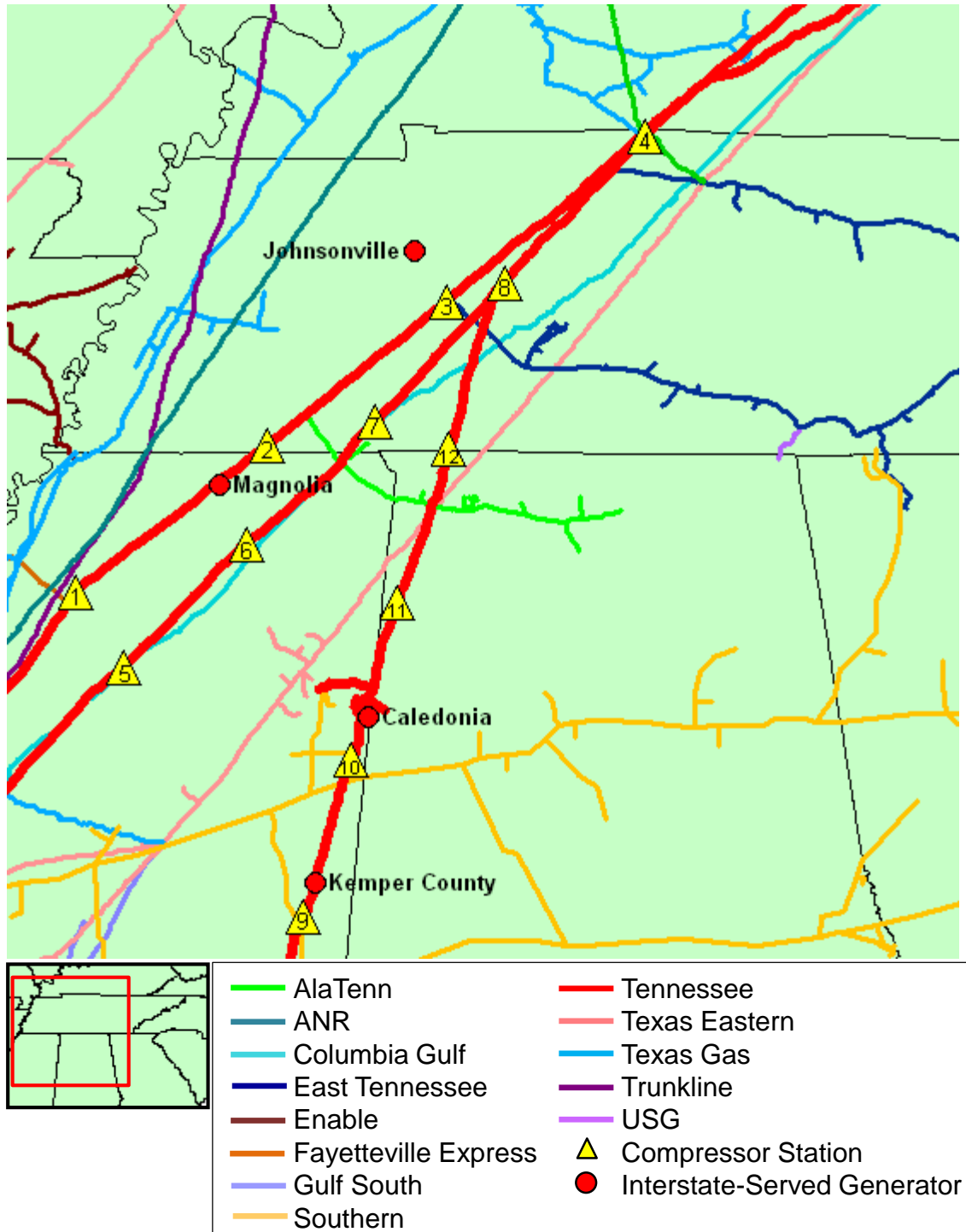


Figure A12-7. Tennessee Facilities in TVA

⁴ Operationally Available Capacity – Segment Capacity:
<http://pipeline2.kindermorgan.com/Capacity/OpAvailSegment.aspx?code=TGP>

Table A12-11. TVA Generators Directly Connected to Tennessee

Generator	Capacity (MW)	Meter Name	Meter Number
Caledonia	816	Cal Gen/TGP Lowndes	421003
Johnsonville ⁵	1,440	TVA/TGP Johnsonville Hickman	420907
Kemper County	384	TVA/TGP Kemper	420937
Magnolia	999	TVA/TGP Magnolia Benton	420948

Table A12-12. Tennessee Compressor Stations in TVA

ID	Name	Location
1	Station 63	Batesville, MS
2	Station 71	Middleton, TN
3	Station 79	Lobelville, TN
4	Station 87	Portland, TN
5	Station 847	Grenada, MS
6	Station 851	New Albany, MS
7	Station 856	Savannah, TN
8	Station 860	Centerville, TN
9	Station 542	Dekalb, MS
10	Station 546	Columbus, MS
11	Station 550	Hamilton, AL
12	Station 555	Collinwood, TN

⁵ The Johnsonville power plant is connected to Tennessee by a 28-mile shipper-owned lateral.

Texas Eastern Transmission (Spectra Energy)

Capacity: 2,167 MDth/d (Kosciusko)⁶

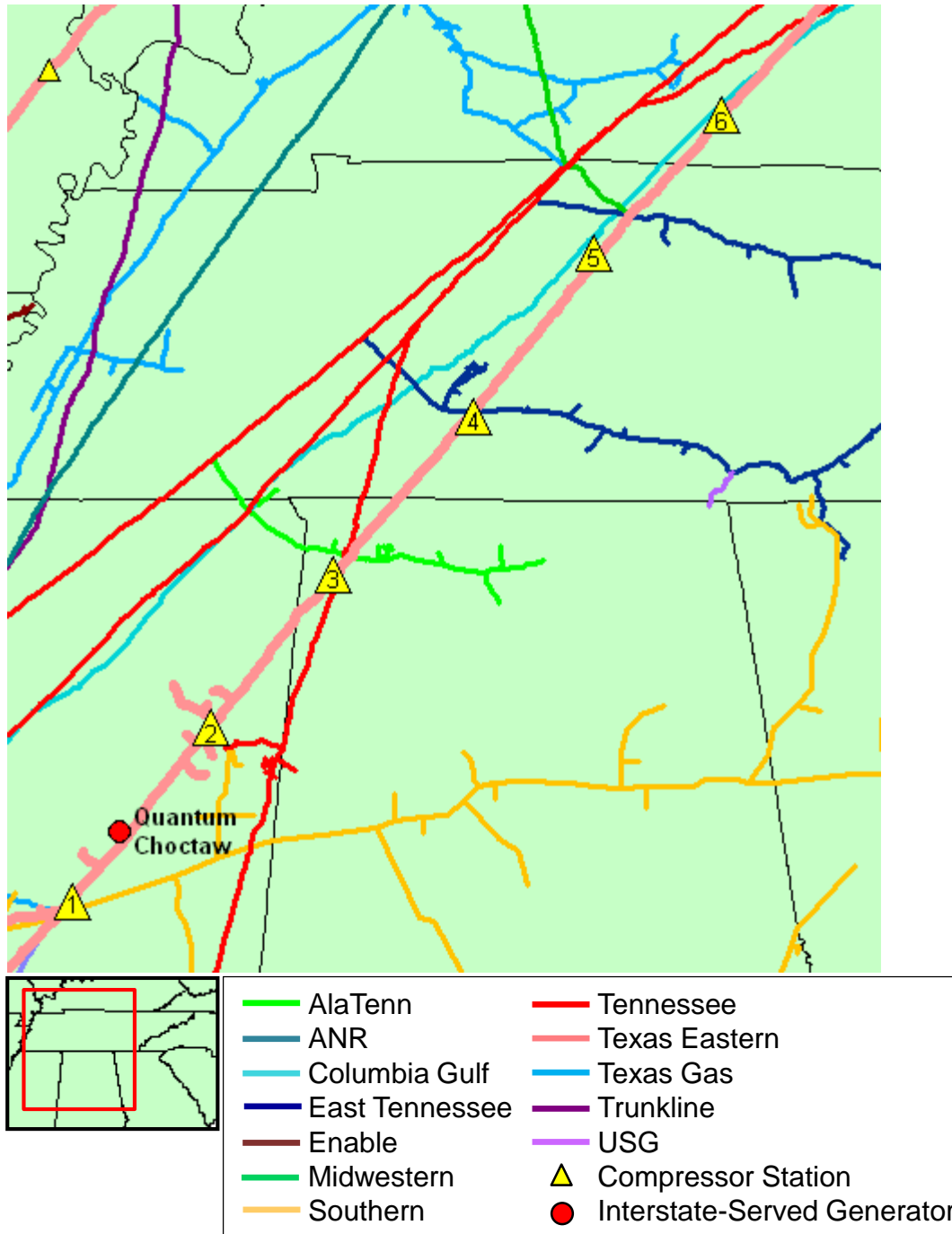


Figure A12-8. Texas Eastern Facilities in TVA

⁶ Operationally Available Capacity – Operational Capacity Map:
<https://rtba.spectraenergy.com/InformationalPosting/Default.aspx?bu=TE&Type=OA>

Table A12-13. TVA Generators Directly Connected to Texas Eastern

Generator	Capacity (MW)	Meter Name	Meter Number
Quantum Choctaw	760	Suez/Choctaw	79960

Table A12-14. Texas Eastern Compressor Stations in TVA

ID	Name	Location
1	Kosciusko	Kosciusko, MS
2	Egypt	Egypt, MS
3	Barton	Barton, AL
4	Mt. Pleasant	Mt. Pleasant, TN
5	Gladeville	Gladeville, TN
6	Tompkinsville	Summer Shade, KY

Texas Gas Transmission (Boardwalk Pipeline Partners)

Capacity: 1,824 MDth/d (Lake Cormorant)⁷

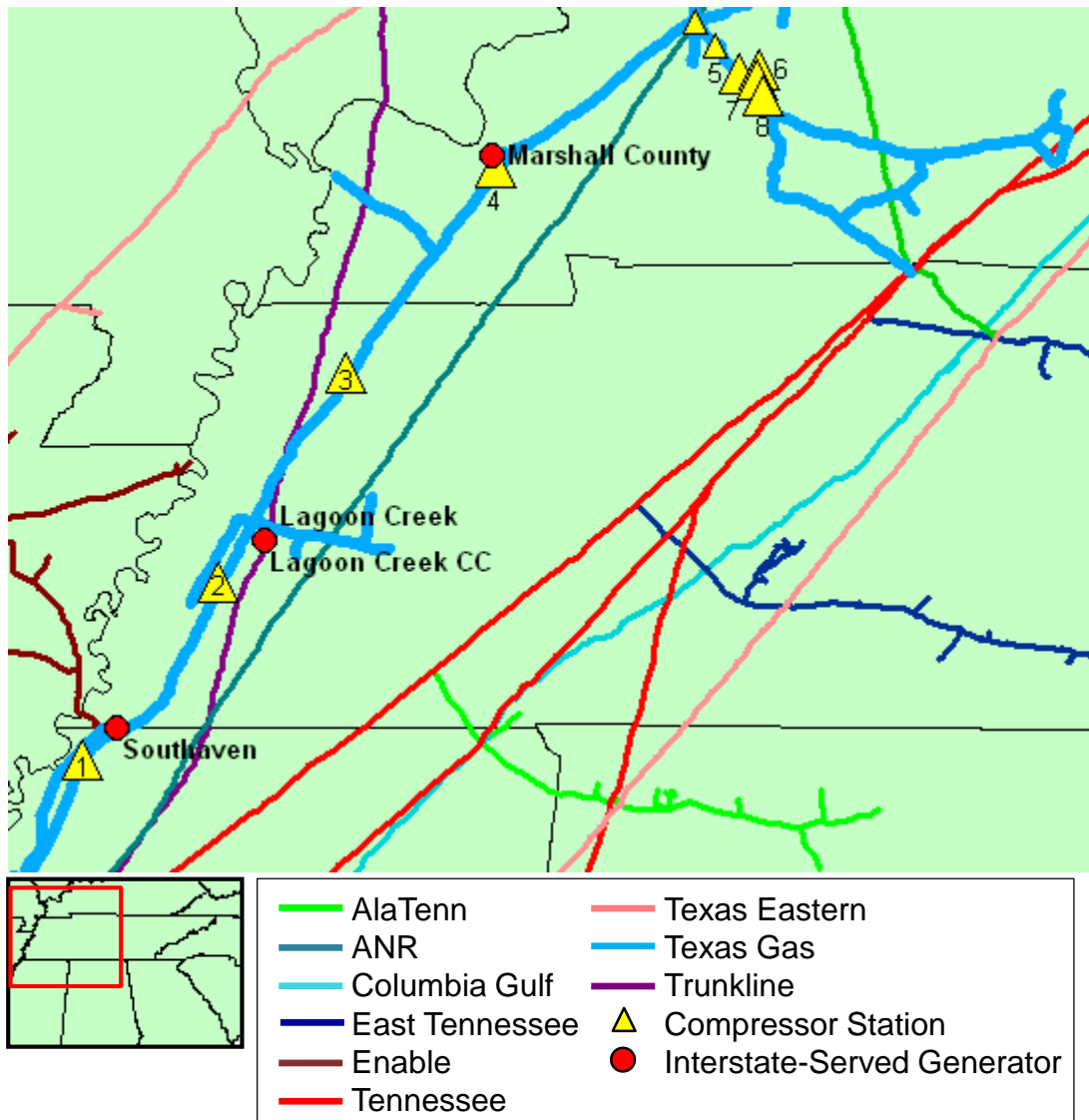


Figure A12-9. Texas Gas Facilities in TVA

⁷ Operationally Available Capacity:
<http://infopost.bwmpmp.com/Posting/default.aspx?Mode=Display&Id=11&tspid=100000>

Table A12-15. TVA Generators Directly Connected to Texas Gas

Generator	Capacity (MW)	Meter Name	Meter Number
Lagoon Creek ⁸	1,160	TVA-Lagoon Creek	9588
Lagoon Creek CC ⁹	622	TVA-Lagoon Creek	9588
Marshall County	768	Duke Energy-Marshall Cty	9908
Southaven	852	TVA-Southaven	9198

Table A12-16. Texas Gas Compressor Stations in TVA

ID	Name	Location
1	Lake Cormorant	Lake Cormorant, MS
2	Covington	Covington, TN
3	Kenton	Kenton, TN
4	Calvert City	Benton, KY
5	Midland 3	Bremen, KY
6	West Greenville	Greenville, KY
7	Midland 2	Bremen, KY
8	Graham Lake	Greenville, KY

⁸ Lagoon Creek is also directly connected to Trunkline. The primary connection is through Texas Gas.

⁹ Lagoon Creek CC is also directly connected to Trunkline. The primary connection is through Trunkline.

Trunkline Gas (Energy Transfer Partners)

Capacity: 1,680 MDth/d

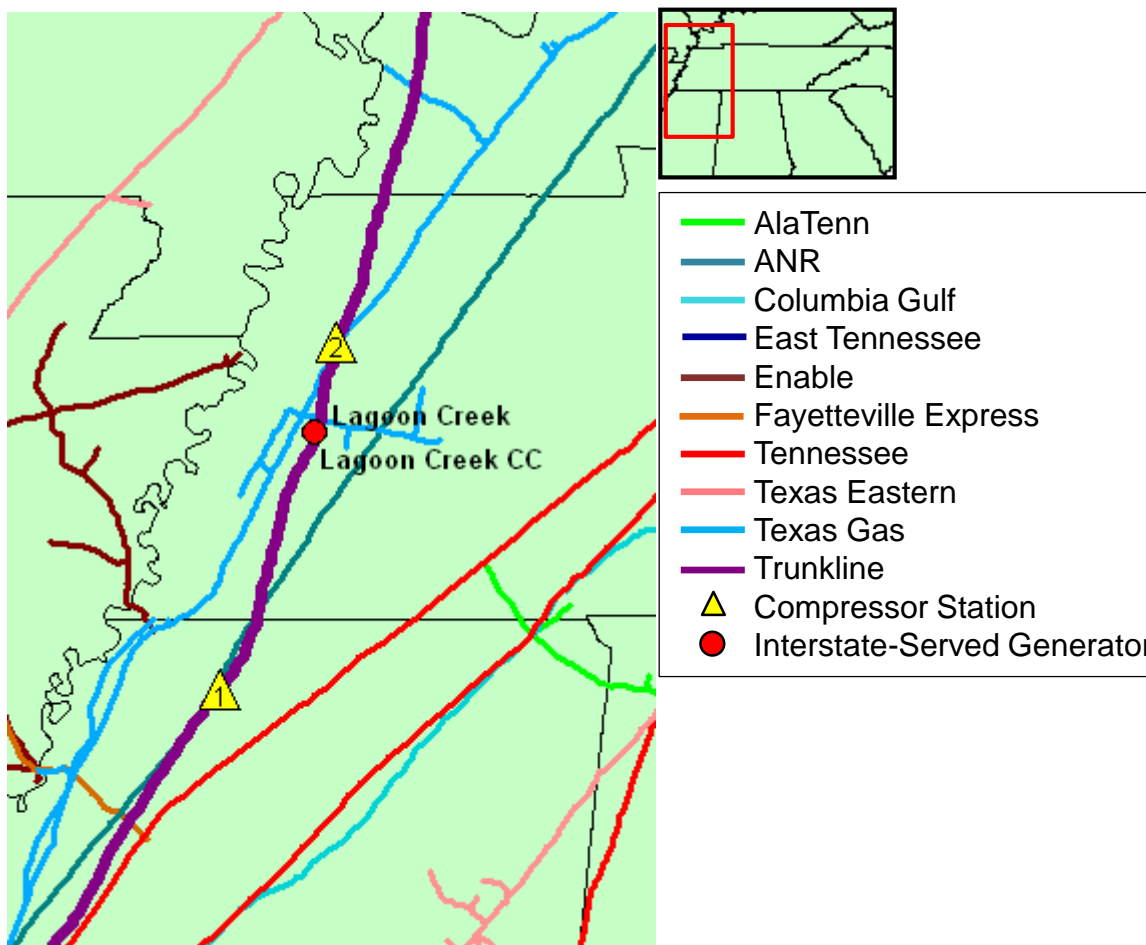


Figure A12-10. Trunkline Facilities in TVA

Table A12-17. TVA Generators Directly Connected to Trunkline

Generator	Capacity (MW)	Meter Name	Meter Number
Lagoon Creek ¹⁰	1,160	Lagoon Creek - TVA	TVALC
Lagoon Creek CC ¹¹	622	Lagoon Creek - TVA	TVALC

Table A12-18. Trunkline Compressor Stations in TVA

ID	Name	Location
1	Independence	Independence, MS
2	Dyersburg	Dyersburg, TN

¹⁰ Lagoon Creek is also directly connected to Texas Gas. The primary connection is through Texas Gas.

¹¹ Lagoon Creek CC is also directly connected to Texas Gas. The primary connection is through Trunkline.

American Midstream (Bamagas)

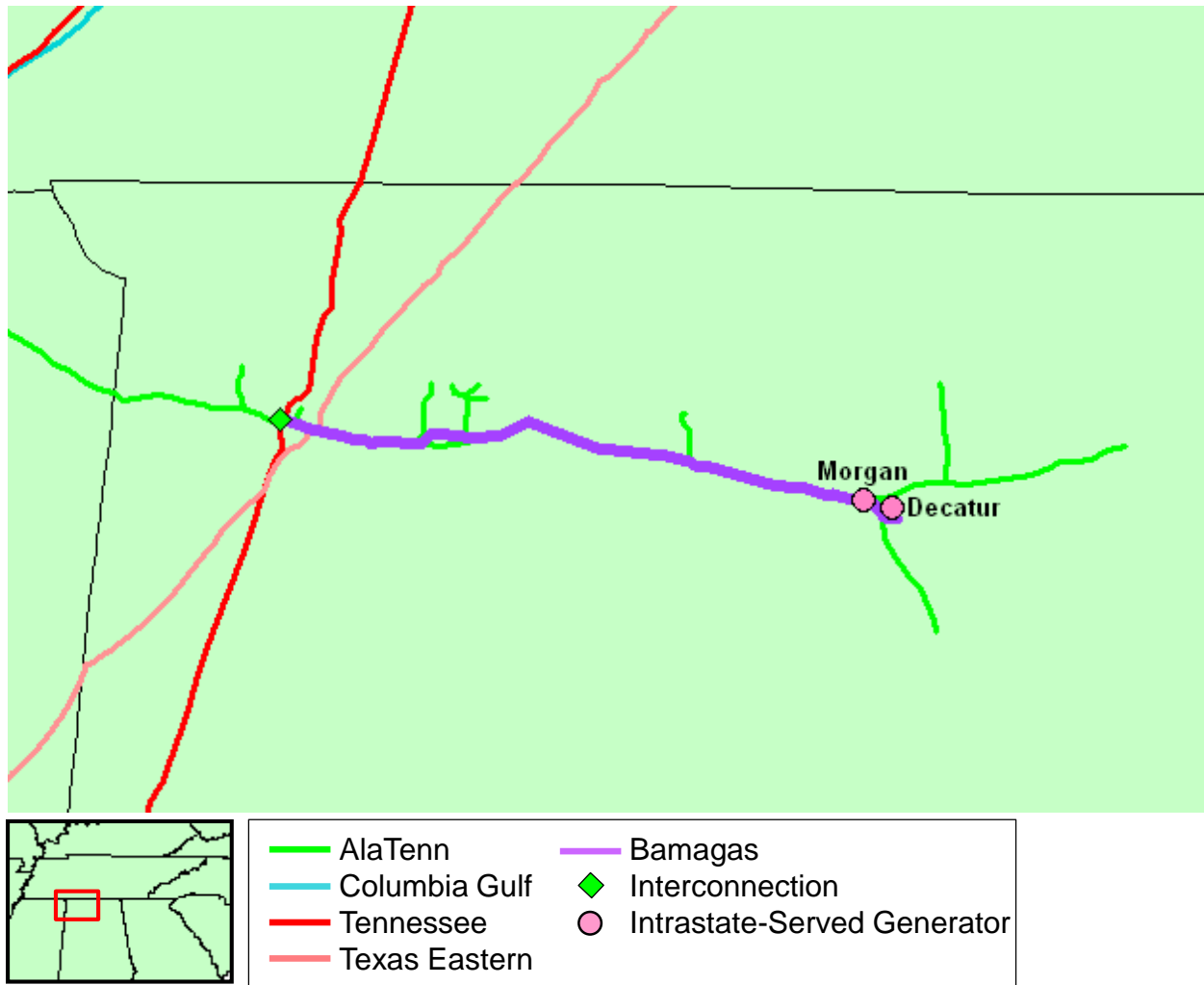


Figure A12-10. Bamagas Facilities

Table A12-17. TVA Generators Directly Connected to Bamagas

Generator	Capacity (MW)
Decatur	795
Morgan	807

Table A12-20. Bamagas Interconnections

Pipeline	Meter Name	Meter Number
AlaTenn	AlaTenn to Bamagas	20167
Tennessee	AmMid BA/TGP Bamagas Colbert	420942

Memphis Light Gas & Water

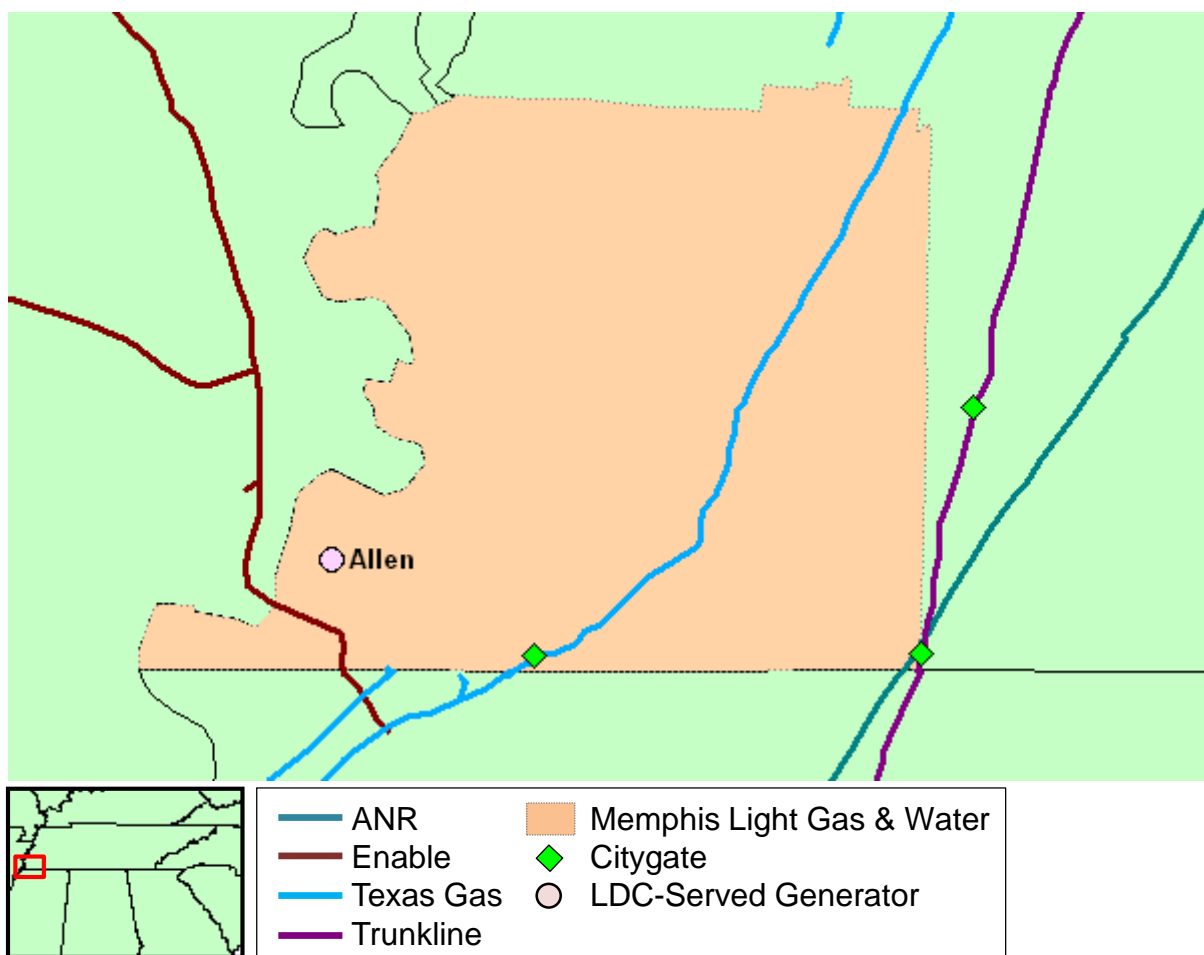


Figure A12-11. Memphis Light Gas & Water Service Territory

Table A12-19. TVA Generators Served by Memphis Light Gas & Water

Generator	Capacity (MW)
Allen	572

Table A12-20. Memphis Light Gas & Water Citygate Stations

Pipeline	Meter Name	Meter Number
ANR	Collierville Gate	416969
Texas Gas ¹²	Memphis	1600
Trunkline	Memphis LGW	93069

¹² Texas Eastern is the principal supply source for the Allen plant.

Appendix 13

Gas Infrastructure Serving Generation in IESO

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TransCanada Pipe Lines Limited

Capacity: 6,573 MMcf/d (summer) / 6,862 MMcf/d (winter)¹

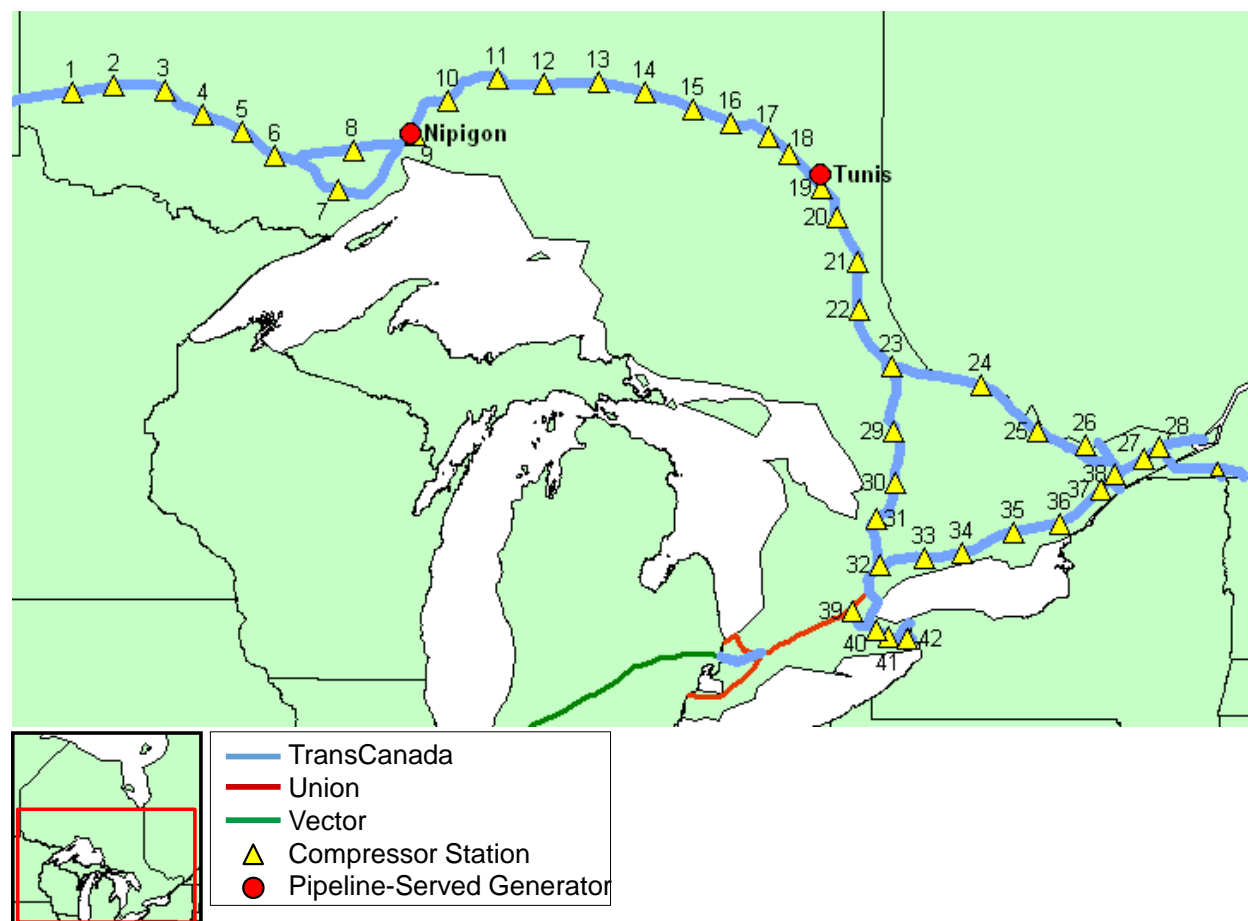


Figure A13-1. TransCanada Facilities in Ontario

Table A13-1. Ontario Generators Directly Connected to TransCanada

Generator	Capacity (MW)
Nipigon	42.4
Tunis	60.0

¹ The mainline flow-in capacity at Empress in Alberta. Source: <http://www.transcanada.com/customerexpress/2859.html>

Table A13-2. TransCanada Compressor Stations in Ontario

ID	Name	Location
1	Station 49	Kenora, ON
2	Station 52	Vermilion Bay, ON
3	Station 55	Dryden, ON
4	Station 58	Ignace, ON
5	Station 60	Martin, ON
6	Station 62	Upsala, ON
7	Station 68	Thunder Bay, ON
8	Station 69	Eaglehead, ON
9	Station 75	Nipigon, ON
10	Station 77	Jellicoe, ON
11	Station 80	Geraldton, ON
12	Station 84	Klotzlake, ON
13	Station 86	Hearst, ON
14	Station 88	Calstock, ON
15	Station 92	Mattice, ON
16	Station 95	Kapuskasing, ON
17	Station 99	Smooth Rock Falls, ON
18	Station 102	Potter, ON
19	Station 105	Ramore, ON
20	Station 107	Swastika, ON
21	Station 110	Haileybury, ON
22	Station 112	Marten River, ON
23	Station 116	North Bay, ON
24	Station 1206	Deux Rivieres, ON
25	Station 1211	Pembroke, ON
28	Station 1217	Stittsville, ON
27	Station 147	Cornwall, ON
28	Station 148	Les Cedres, ON
29	Station 119	Sundridge, ON
30	Station 123	Bracebridge, ON
31	Station 127	Barrie, ON
32	Station 130	Maple, ON
33	Station 134	Bowmanville, ON
34	Station 136	Cobourg, ON
35	Station 139	Belleville, ON
36	Station 142	Kingston, ON
37	Station 144	Brockville, ON
38	Station 1401	Iroquois, ON
39	Station 1301	Kirkwall, ON
40	Station 209	Ancaster, ON
41	Station 211	Lincoln, ON
42	Station 1703	Douglastown, ON

Vector Pipeline (Enbridge / DTE Energy Company)

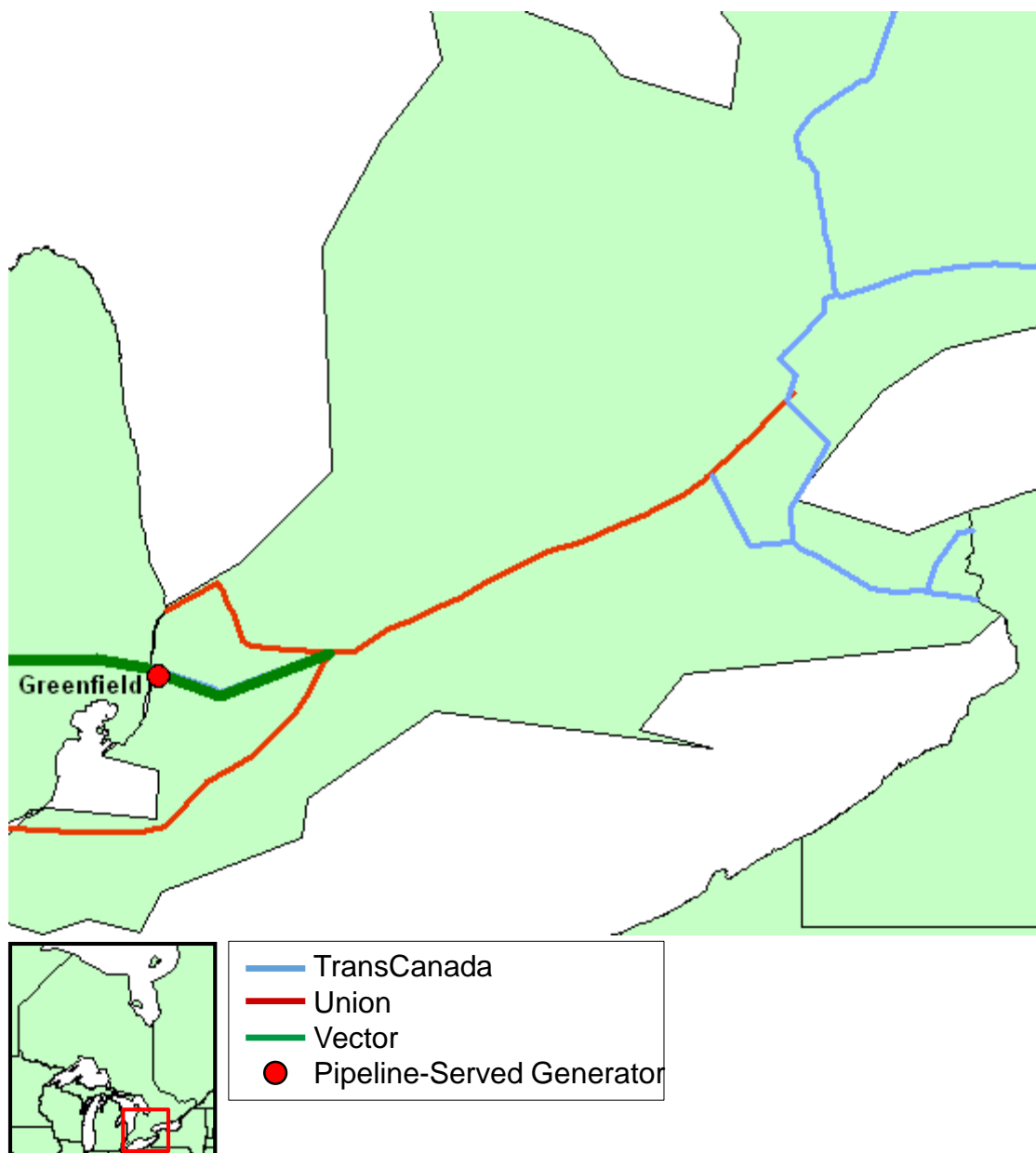


Figure A13-2. Vector Facilities in Ontario

Table A13-3. Ontario Generators Directly Connected to Vector

Generator	Capacity (MW)
Greenfield	1,153.0

Union Gas Limited (Spectra Energy)

Capacity: 4,620,000 GJ/d (4,379 MDth/d)²

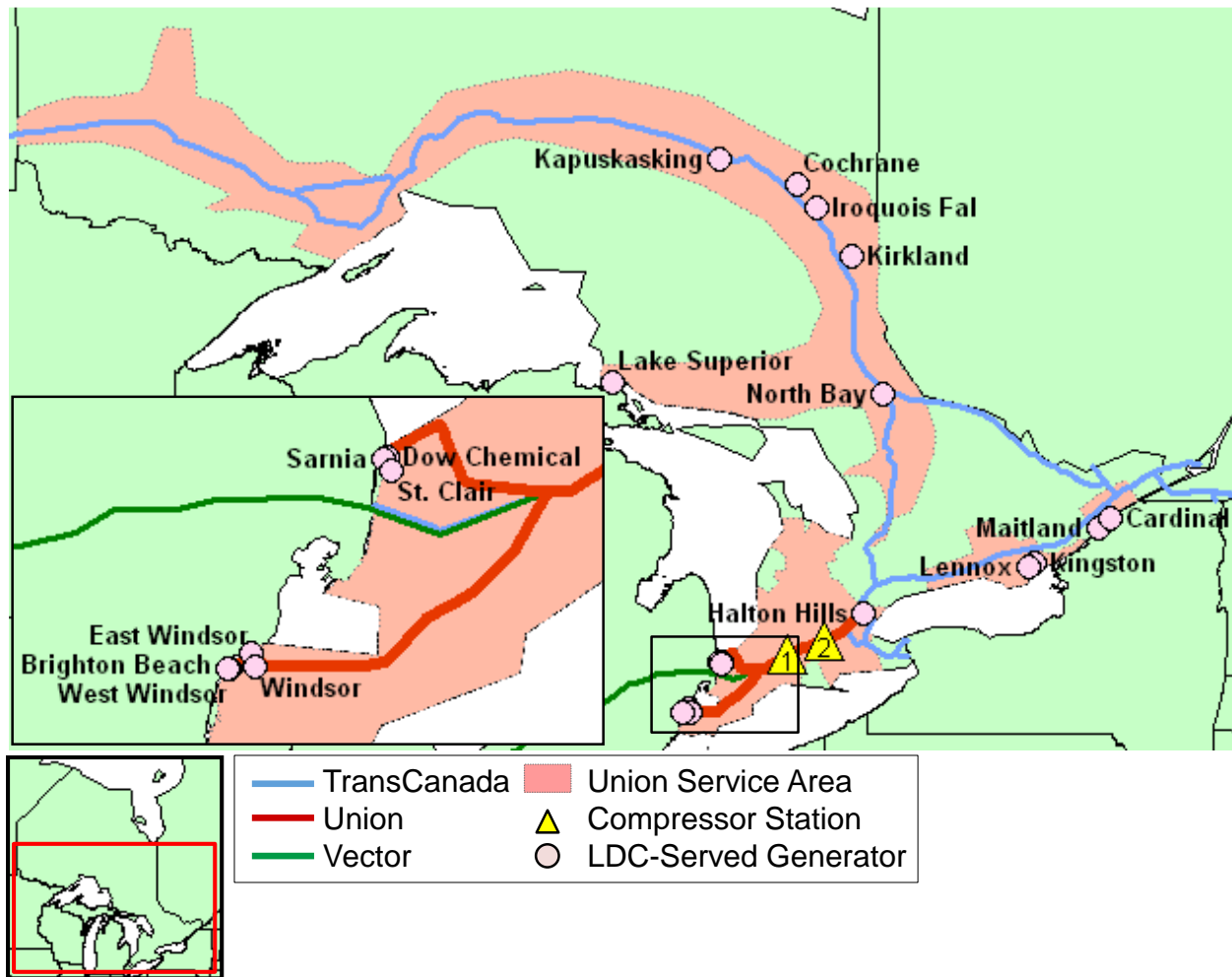


Figure A13-3. Union Facilities in Ontario

² Transport capacity from Dawn to Parkway. <http://www.uniongas.com/storage-and-transportation/informational-postings/operational-available-transport-capacity>

Table A13-4. Ontario Generators Served by Union

Generator	Capacity (MW)
Brighton Beach	580.0
Cardinal	184.0
Cochrane	46.5
Dow Chemical	100.0
East Windsor	100.0
Halton Hills	757.0
Iroquois Falls	131.0
Kapuskasing	60.4
Kingston	140.0
Kirkland	149.0
Lake Superior	120.1
Lennox	2100.0
Maitland	50.0
North Bay	60.4
Sarnia	510.0
St. Clair	678.0
West Windsor	128.0
Windsor	79.0

Table A13-2. Union Compressor Stations in Ontario

ID	Name	Location
1	Lobo	Lobo, ON
2	Bright	Bright, ON

Enbridge Gas Distribution

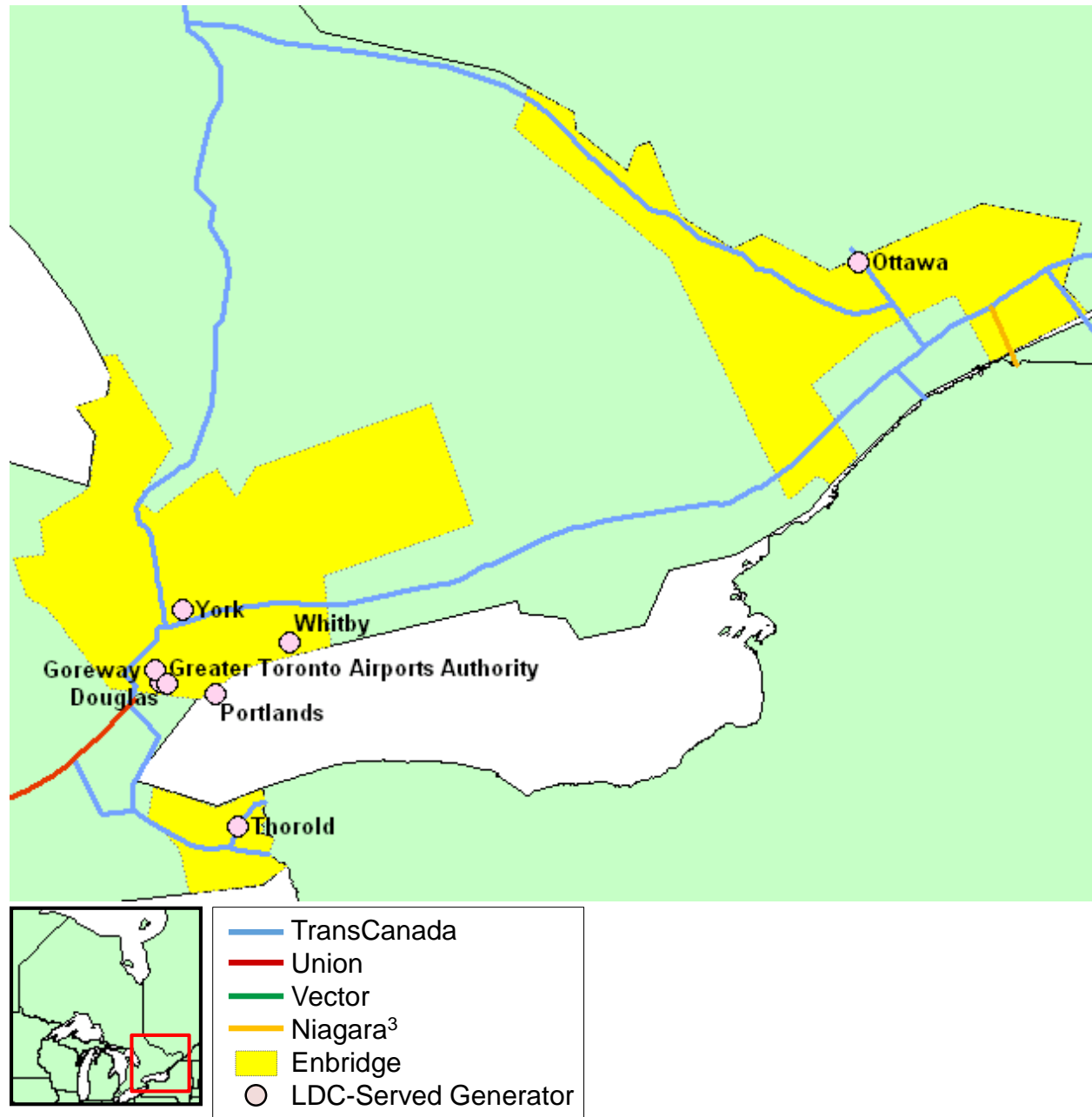


Figure A13-4. Enbridge Facilities in Ontario³

³ Enbridge’s subsidiary Niagara Gas pipeline can deliver up to 41 MDth/d of gas to upstate New York from an interconnection with TransCanada at Cornwall.

Source: St. Lawrence Gas, Niagara Gas’s sole firm shipper, reported in its 2012-13 Winter Supply Review filing that it holds 41 MDth/d of transportation capacity.

Table A13-5. Ontario Generators Served by Enbridge

Generator	Capacity (MW)
Douglas	126.0
Goreway	942.0
Greater Toronto Airports Authority	128.0
Ottawa	79.8
Portlands	639.1
Thorold	287.0
Whitby	56.4
York	438.0