

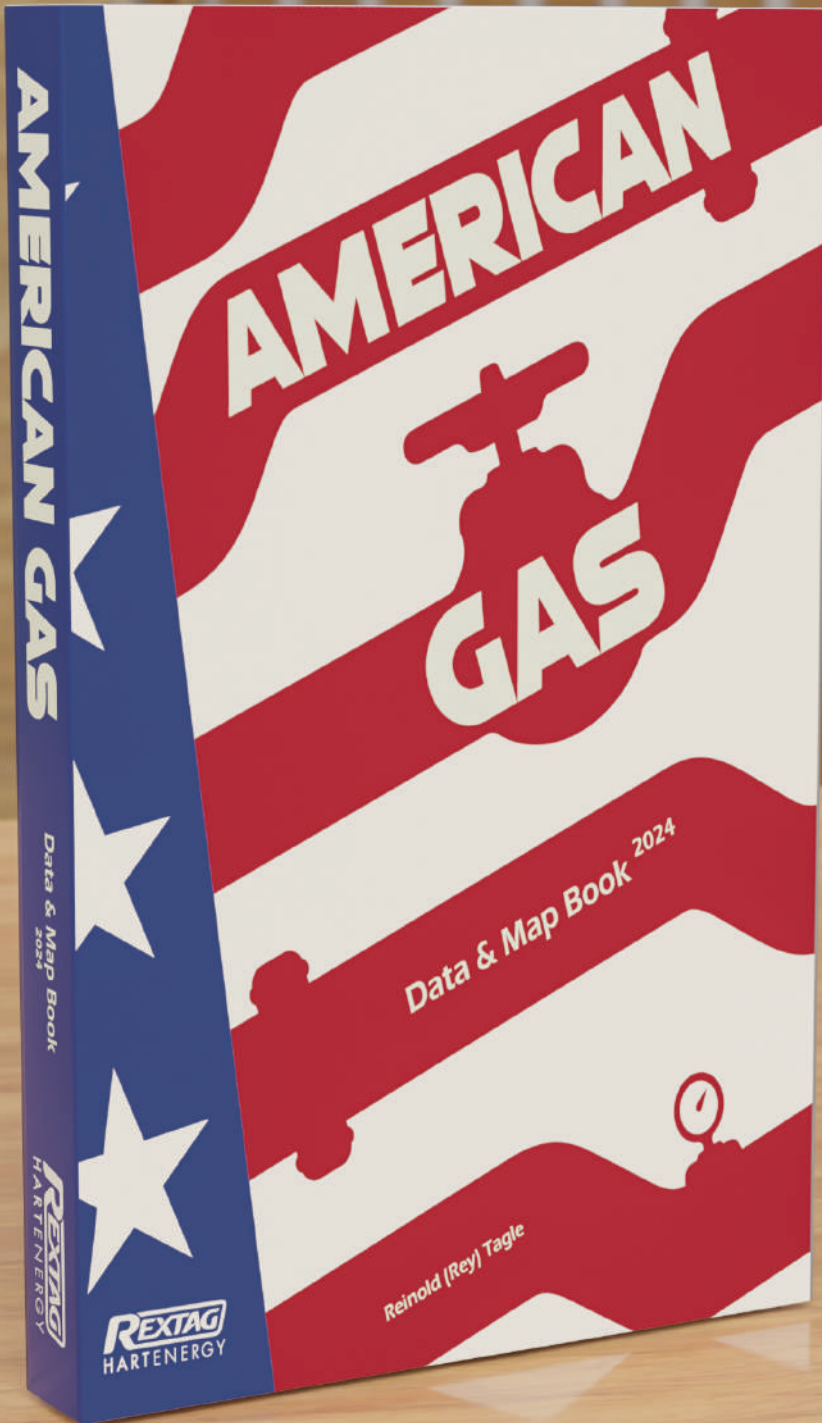


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American Gas - A Brief Introduction

American Gas is designed to serve as the standard annual reference guide for the natural gas industry. We trust that you will find this new edition of the “Map Book” invaluable in your daily business activities. **American Gas** represents the largest and most ambitious effort to date to visually represent natural gas data and maps.

American Gas follows a logical process for the natural gas industry, beginning with sections that cover data on historical production trends by basins, midstream gathering companies, and major gas processing plants. The journey continues through transmission pipelines, gas storage facilities, LNG export terminals, and culminates with historical trends within internal US markets, including a brief examination of gas consumption in major markets.

However, the information contained herein represents only the tip of the proverbial data iceberg available in **Rextag's** subscription services. Please contact us directly if you would like to dig deeper and have daily updated information about natural gas or any other commodity in the energy industry.

Rextag provides the largest and most complete database on energy infrastructure assets in North America. Our databases contain asset ownership, production records, processing capacities, physical locations, planned projects, acquisition records, and much more.

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Coverage in **American Gas**:



Top Natural Gas Producing Basins

Appalachian Basin

Arkoma Basin

Denver-Julesburg Basin *See Sample Pages*

East Texas/North Louisiana

Fort Worth/North Texas

Greater Anadarko Basin

Green River Basin

North Slope Basin

Offshore Gulf of Mexico

Onshore Gulf of Mexico

Permian Basin

Powder River Basin

San Joaquin Basin

San Juan Basin

Uinta-Piceance Basin

Williston Basin



Top Natural Gas Gathering Companies

Aethon United

BKV Corporation

BPX

CNX Resources

Coterra Energy

Crestwood Equity

DCP Midstream

Diversified Energy

DT Midstream

EagleClaw Midstream

Energy Transfer

EnLink Midstream

Enterprise Products

EOG Resources *See Sample Pages*

EQT Corporation

Equitrans Midstream

ExxonMobil

Hilcorp Energy

Howard Energy Partners

Kinder Morgan

MPLX

National Fuel

Navaro Midstream

Occidental Petroleum Corporation

ONEOK

Phillips 66

Repsol

Southwestern Energy

Summit Midstream

Targa Resources

UPP Operating

Williams Energy

Natural Gas Processing Plants



Aethon - Hall Summit

Aux Sable - Channahon C2

Blue Racer - Berne I-II

Blue Racer - Natrium I-IV

BP - Florida River

EnCap (Tall Oak) - Panther Creek

Energy Transfer - Jackson

Energy Transfer - Robeline

EnLink - Midmar East/West

Enterprise - Bulldog

Enterprise - Meeker

Enterprise - Neptune

Enterprise - Pioneer (Cryo)

Enterprise - Toca

ExxonMobil (XT0) - Cowboy

Harvest - Milagro

Hess - Little Missouri Four (LM4)

Hess - Tioga

Intensity - Grady

Kinder Morgan - Plantation Central

Kinetik (Altus) - Toyah

Marathon (MarkWest) - Bluestone I - IV

Marathon (MarkWest) - Cadiz I-IV

Marathon (MarkWest) - Harmon Creek

Marathon (MarkWest) - Majorsville I-VII

Marathon (MarkWest) - Mobley I-V

Marathon (MarkWest) - Sherwood I-XIII

Marathon (MarkWest) - Sprague

Marathon (QEP) - Blacks Fork

Marathon (QEP) - Red Wash

ONEOK - Demicks Lake I & II

ONEOK - Garden Creek I-III

ONEOK - Stateline I-II

OXY - Chipeta I-III

OXY - Lancaster

OXY - Latham I-II

OXY - Platte Valley

Phillips 66 (DCP) - Eagle

Phillips 66 (DCP) - Lucerne I-II

Phillips 66 (DCP) - Mewbourn I-III

Phillips 66 (DCP) - O'Connor II

Scout - Jayhawk *See Sample Pages*

Targa - Edward

Targa - Venice

Williams - Echo Springs

Williams - Fort Beeler I - III

Williams - Ignacio

Williams - Kensington I-III

Williams - Mobile Bay

Williams - Opal



Interstate Gas Transmission Pipelines & Storage Facilities

Adelphia Gateway	Gulf Run Transmission	Southeast Supply Header
Algonquin Gas Transmission	Gulf South Pipeline	Southern Natural Gas
Alliance Pipeline	Gulfstream Natural Gas System	Southern Star Central Gas Pipeline
ANR Pipeline	High Island Offshore System	Spire STL Pipeline
ANR Storage	High Point Gas Transmission	Spire Storage West
Arkoma Connector Pipeline	Honeoye Storage	Stagecoach Pipeline and Storage
Arlington Storage	Horizon Pipeline	Stingray Pipeline
BBT (AlaTenn)	Iroquois Gas Transmission System	Tallgrass Interstate Gas Transmission
BBT Midla	Kern River Gas Transmission	Tennessee Gas Pipeline
BBT Trans-Union Interstate Pipeline	Kinder Morgan Illinois Pipeline	Texas Eastern Transmission
Big Sandy Pipeline	Kinder Morgan Louisiana Pipeline	Texas Gas Transmission
Bluewater Gas Storage	Kinetica Deep Water Express	TransCameron Pipeline
Boardwalk Storage	Kinetica Energy Express	Trailblazer Pipeline
Bobcat Storage	KPC Pipeline	TransColorado Gas Transmission
Cameron Interstate Pipeline	LA Storage	Transcontinental Gas Pipeline
Carlsbad Gateway	Leaf River Energy Center	Transwestern Pipeline
Carolina Gas Transmission	Maritimes & Northeast Pipeline	Tres Palacios Gas Storage
Chandeleur Pipe Line	Midcontinent Express Pipeline	Trunkline Gas
Cheniere Corpus Christi Pipeline	Midship Pipeline	Tuscarora Gas Transmission
Cheyenne Connector	Midwestern Gas Transmission	UGI Mt. Bethel Pipeline
Cheyenne Plains Gas Pipeline	MIGC	UGI Sunbury Pipeline
Cimarron River Pipeline	Millennium Pipeline	Vector Pipeline
Colorado Interstate Gas	Mississippi Canyon Gas Pipeline	Viking Gas Transmission
Columbia Gas Transmission	Mississippi Hub	WBI Energy Transmission
Columbia Gulf Transmission	MoGas Pipeline	White River Hub
Cove Point LNG	Mojave Pipeline	WTG Hugoton
Creole Trail Pipeline	Monroe Gas Storage	Wyoming Interstate
Crossroads Pipeline	MountainWest Overthrust Pipeline	
Destin Pipeline	MountainWest Pipeline	
Discovery Gas Transmission	National Fuel Gas Supply	
Double E Pipeline	Natural Gas Pipeline Company of America (NGPL)	
East Tennessee Natural Gas	Nautilus Pipeline	
Eastern Gas Transmission and Storage	NEXUS Gas Transmission	
Egan Hub	North Baja Pipeline	
El Paso Natural Gas	Northern Border Pipeline	
Elba Express Pipeline	Northern Natural Gas	<i>See Sample Pages</i>
Empire Pipeline	Northwest Pipeline	
Enable Gas Transmission	Ozark Gas Transmission	
Enable Mississippi River Transmission	Panhandle Eastern Pipe Line	
Equitrans	Perryville Gas	
ETC Tiger Pipeline	Pine Prairie Energy Center	
Florida Gas Transmission	Portland Natural Gas Transmission	
Florida Southeast Connection	Rendezvous Pipeline	
Garden Banks Gas Pipeline	Rockies Express Pipeline	
Gas Transmission Northwest	Rover Pipeline	
Golden Pass Pipeline	Ruby Pipeline	
Granite State Gas Transmission	Sabal Trail Transmission	
Great Basin Gas Transmission	Sabine Pipe Line	
Great Lakes Gas Transmission	Sea Robin Pipeline	
Guardian Pipeline	Sierrita Gas	



Intrastate Gas Transmission Pipelines

Acadian Gas Pipeline *See Sample Pages*
 Bridgeline Holdings
 Enable Oklahoma Intrastate Transmission
 EnLink LIG
 Enterprise Products
 ETC Texas Pipeline
 Kinder Morgan Tejas Pipeline
 Kinder Morgan Texas Pipeline
 North Coast Gas Transmission
 ONEOK Gas Transportation
 ONEOK Westex Transmission
 Permian Highway Pipeline
 Regency Intrastate Gas
 Rocky Mountain Natural Gas
 Whistler Pipeline



LNG Export Terminals

Calcasieu Pass
 Cameron LNG
 Corpus Christi LNG
 Cove Point LNG
 Elba Island LNG
 Freeport LNG *See Sample Pages*
 Sabine Pass



Regional Natural Gas Markets

Albuquerque
 Atlanta
 Baltimore
 Birmingham
 Boston
 Charleston
 Charlotte
 Chattanooga
 Chicago
 Columbus
 Dayton - Cincinnati
 Washington DC
 Denver
 Detroit
 El Paso
 Indianapolis
 Jacksonville
 Kansas City
 Knoxville
 Las Vegas
 Little Rock
 Louisville
 Memphis
 Miami
 Milwaukee
 Minneapolis - St. Paul
 Mobile
 Nashville
 San Francisco / North Cal.
 N. York - N. Jersey
 Orlando
 Philadelphia
 Phoenix
 Pittsburgh
 Portland
 Reno
 Salt Lake City
 Seattle - Olympia
 Los Angeles / SoCal
 St. Louis
 Tampa
 Tucson
 Wichita

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Top Natural Gas Producing Basins - Sample Page

STATISTICS

Denver-Julesburg Basin

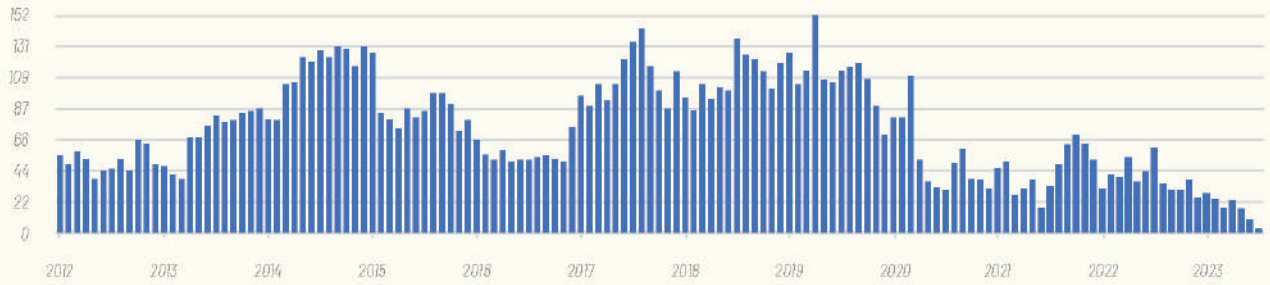


General Information

Active Gas Wells:	220,664	Average Depth (ft)	Last 12-Mo Completions:
Unconventional	1,021	3,904	4
Conventional	16,773	10,760	145

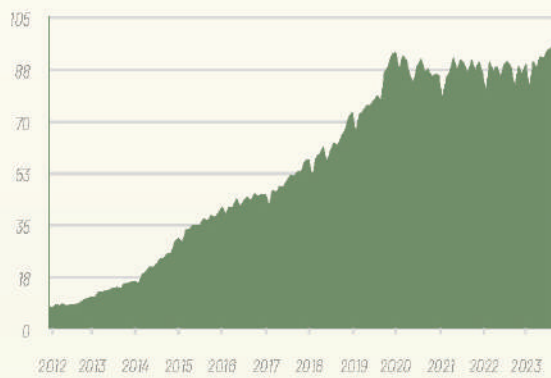


Well Completions



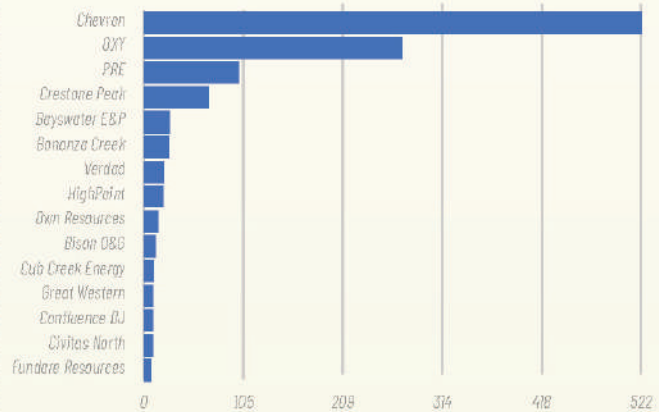
Natural Gas Production

Monthly Gas Production (Bcf)



Top Natural Gas Producers

Annual* Natural Gas Production (Bcf)

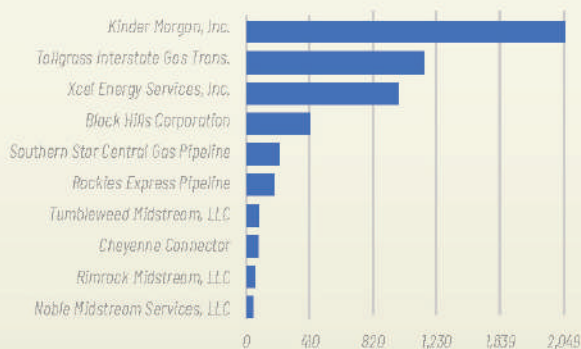


*Trailing 12-months from the time of printing. End of 2022 to End of 2023. Source: Bakken Upstream Oil & Gas



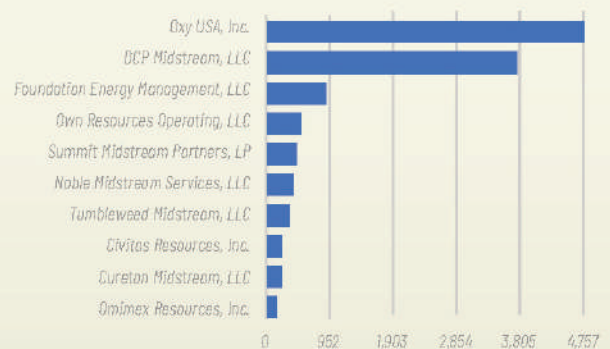
Transmission Pipelines

Top Gas Transmission Pipeline Operators (Miles)



Gathering Pipelines

Top Gas Gathering Pipeline Operators (Miles)



EOG Resources

STATISTICS



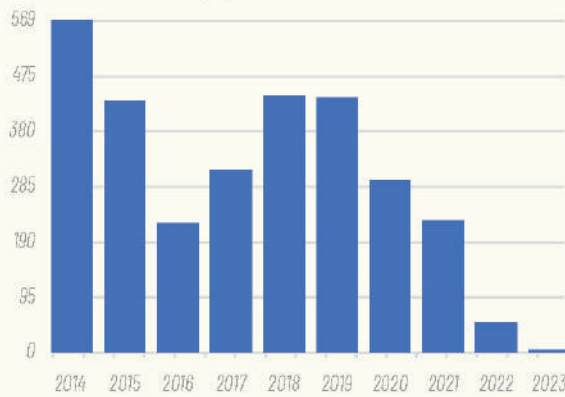
General Information

Miles of Gathering Pipeline: 2,880
 Gas Processing Plants: 77
 Average Monthly Flows: 24.9 (BCF/Month)

Associated Active Gas Wells:

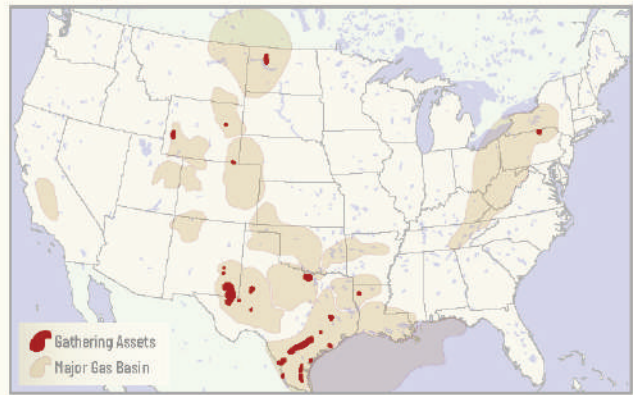
Conventional 235
Unconventional 4,671

New Gas Wells Added per Year



Source: Energy Information Administration

Areas of Operations

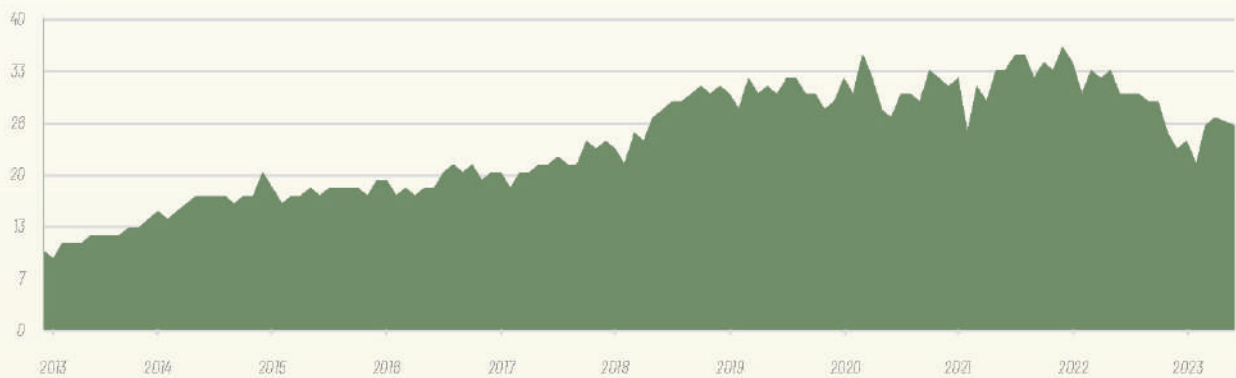


Source: Energy Information Administration



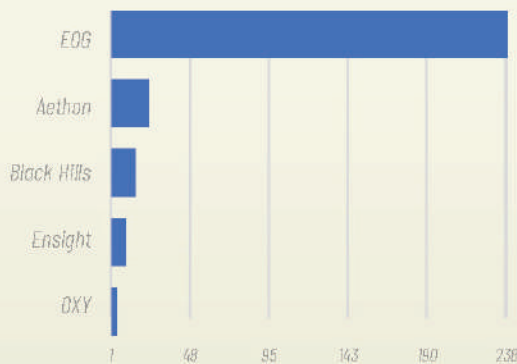
Gas Gathering Flows

Monthly Gas Gathering Flows (BCF/Month)



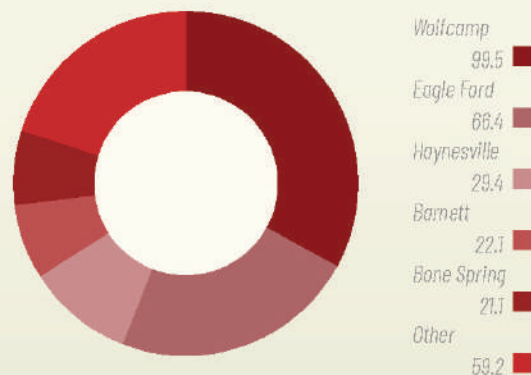
Producers

Top Natural Gas Producers (Trailing 12 Month) (BCF)



Producing Formations

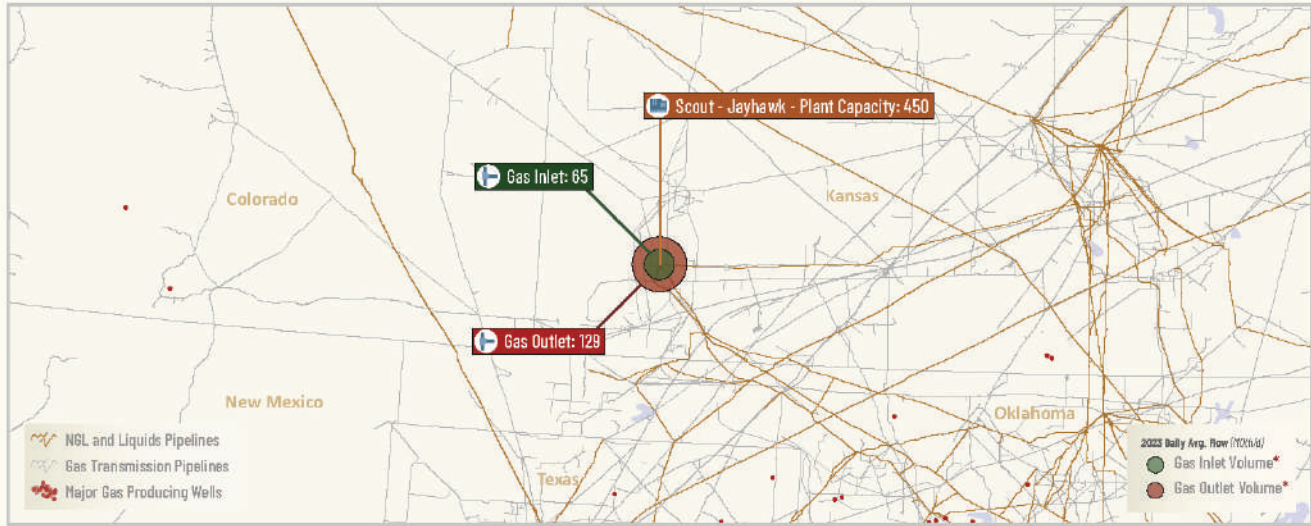
Natural Gas Production by Formation (Trailing 12 Month) (BCF)



Natural Gas Processing Plants - Sample Page

MAJOR GAS PROCESSING PLANTS

Scout - Jayhawk



*Representing only known gas flows, may not account for all processing volumes



General Information

Owner: Scout Energy Partners
 Operator: Scout Energy Group Y, LP
 Type: Processing Plant
 Capacity (mmcf/d): 450

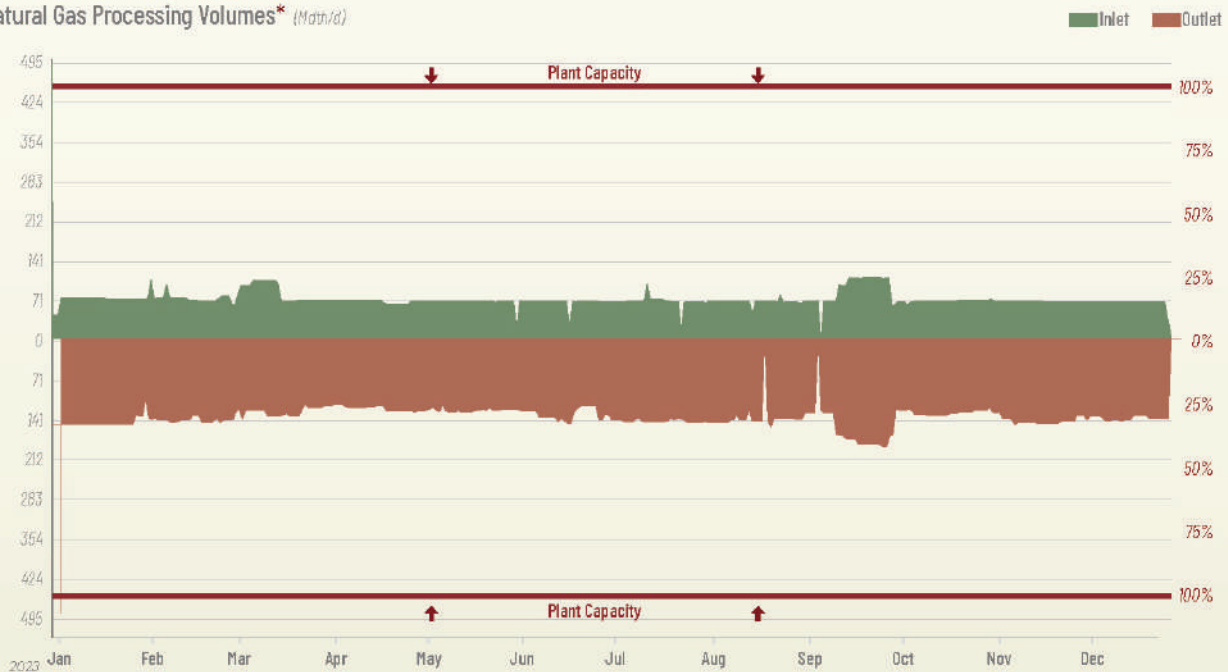
Inlet Gas Pipelines:
 Outlet Gas Pipelines:
 NGLs Outlet Pipelines:

WTG Hugoton, NNG, Oneok FS, ETC
 Southern Star
 Oneok



Gas Gathering Flows

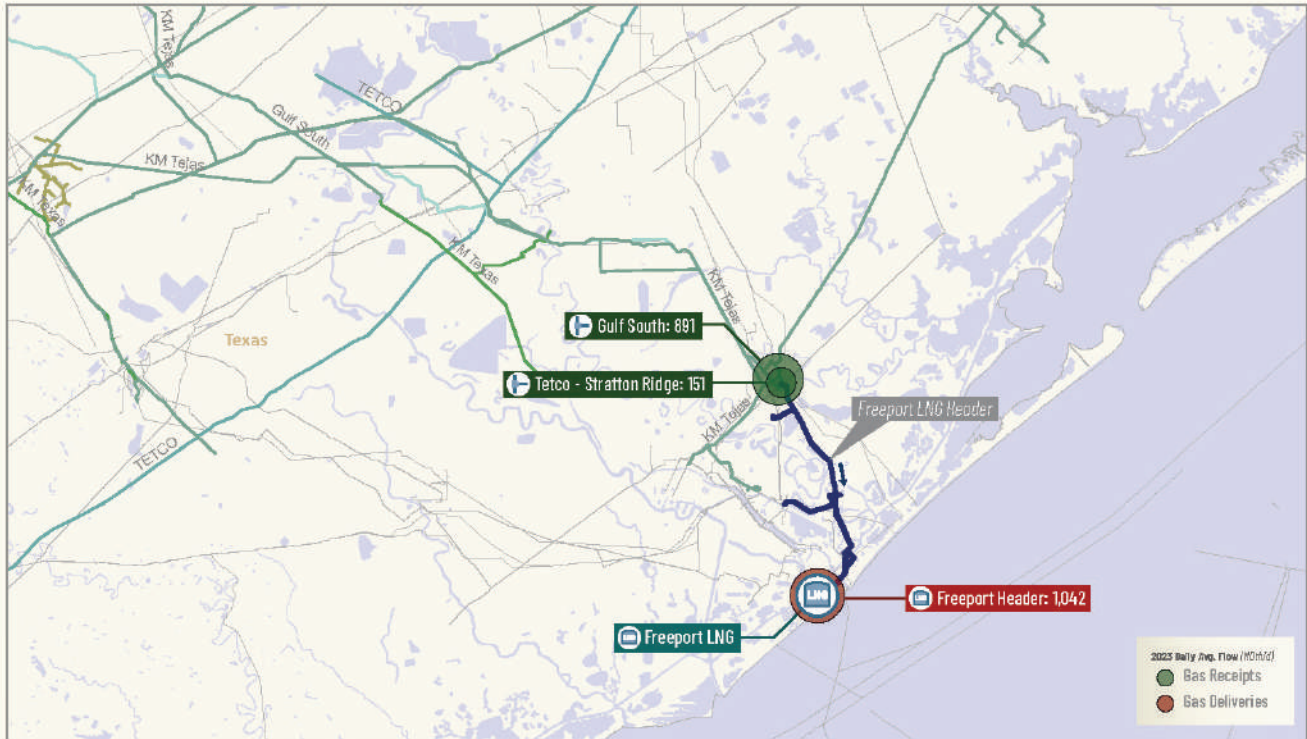
Natural Gas Processing Volumes* (MMcf/d)



*Representing only known gas flows, may not account for all processing volumes

Freeport LNG

LNG EXPORT TERMINALS



General Information

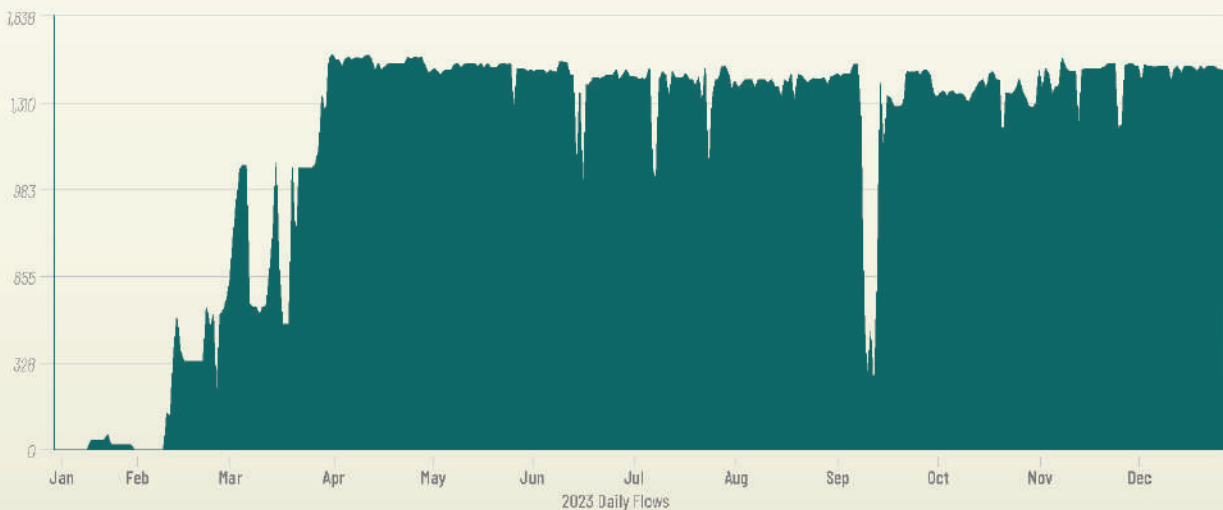
Owner:	Freeport (50)/JERA (25.7)/Osaka Gas (24.2)	Liquefaction Capacity (MTPA):	15	Active Trains:	3
Operator:	Freeport LNG Development, LP	Storage Capacity (BCF):	11.5	No. of Berths:	2
Capabilities:	Liquefaction	Storage Capacity (Cubic Meters):	325,000	No. of Tanks:	3

Pipeline Headers & Direct Connections: Freeport LNG
 Pipeline Interconnections via Headers: Gulf South, Tetco, KM Tejas.

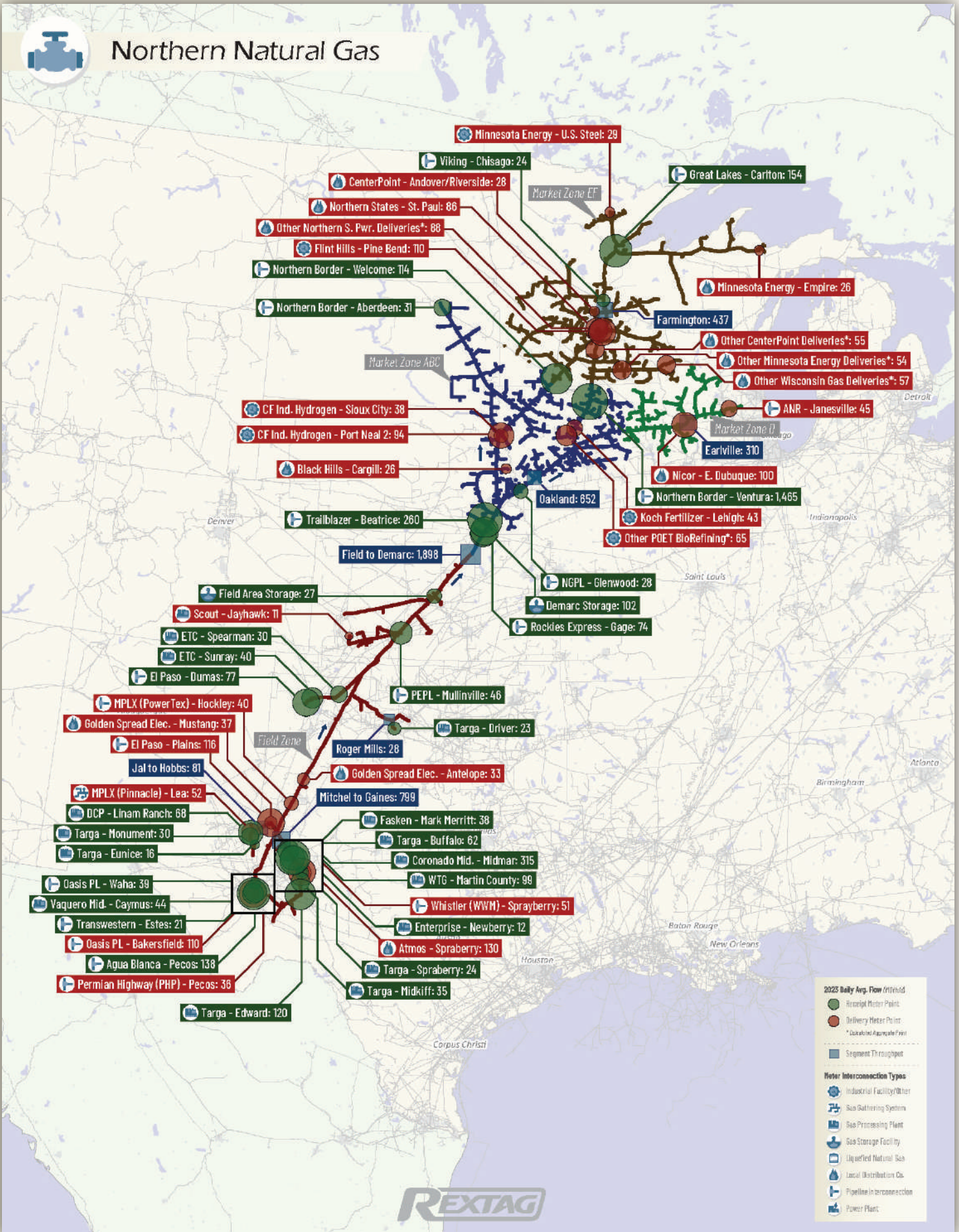


Gas Receipts from Pipelines

Daily Gas Receipts from Pipelines (MMbbl/d)



Interstate Gas Transmission - Sample Pages 1/4



Northern Natural Gas

STATISTICS



General Information

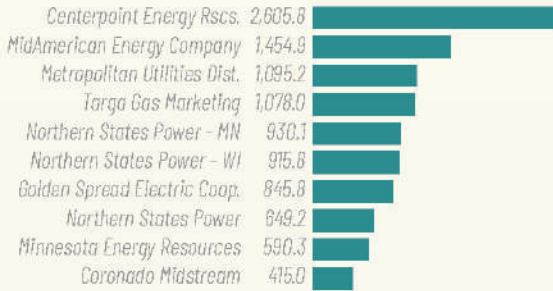
Owner: Berkshire Hathaway Energy Company
 Operator: Northern Natural Gas Company
 Miles of Pipeline: 14,300

System Capacity (BCF/d): 8
 Seasonal Storage (BCF): 95.6
 Compressor Stations: 55

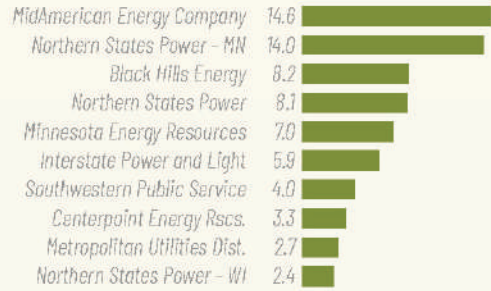


Top Customers

Transport (MMbbl/d)

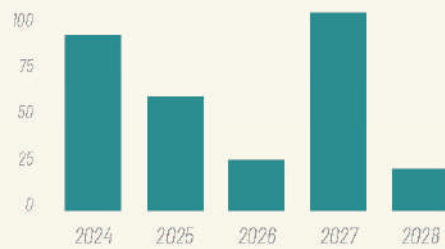


Storage (Bcf)

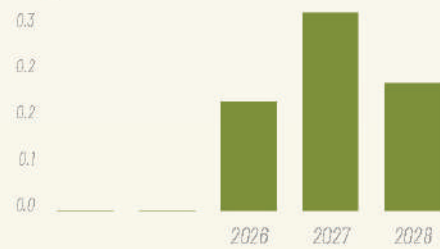


Aggregate Annual Contracted Capacity Expiration

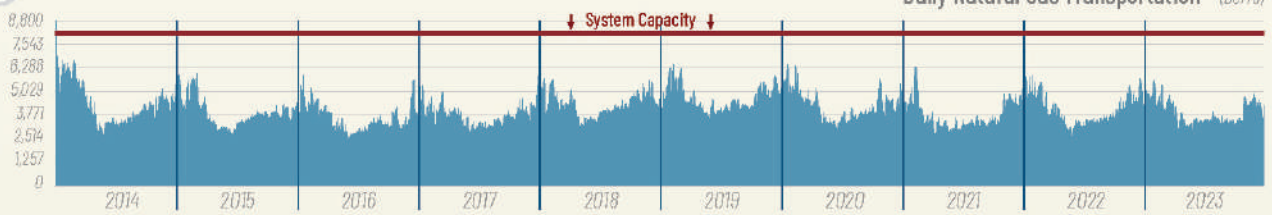
Transport (MMbbl/d)



Storage (Bcf)

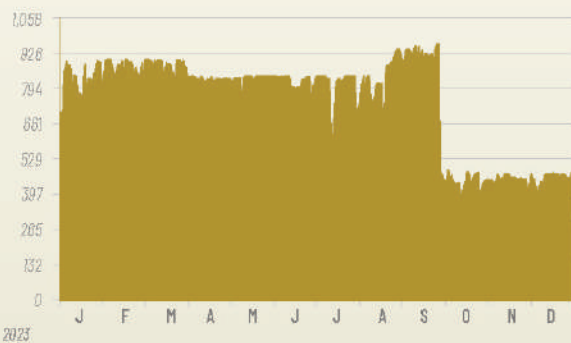


System Throughput Volumes

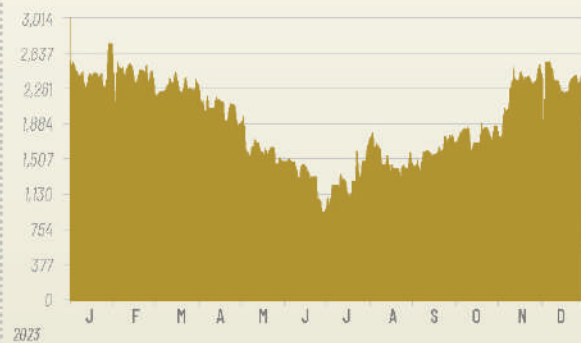


Select Throughputs

Mitchel to Gaines (MMbbl/d)



Field to Demarc (MMbbl/d)



Interstate Gas Transmission - Sample Pages 3/4

TRANSPORT CUSTOMERS

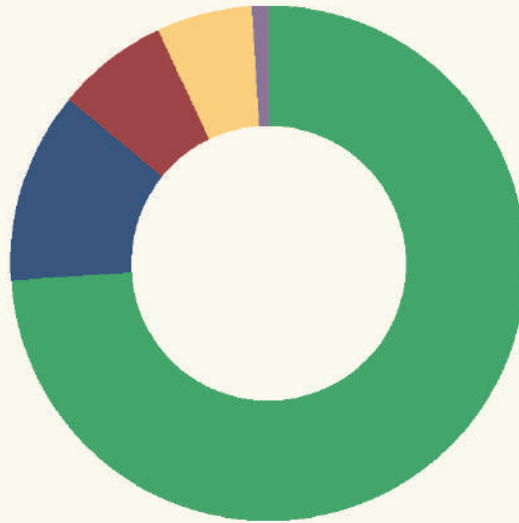
Northern Natural Gas



By Category

Contracted Capacity (MMth/d)

Utility/Power Gen.	10,008
Midstream	1,683
Industrial	898
Marketer	868
Producer	66



Utility/Power Gen.

Contracted Capacity (MMth/d)

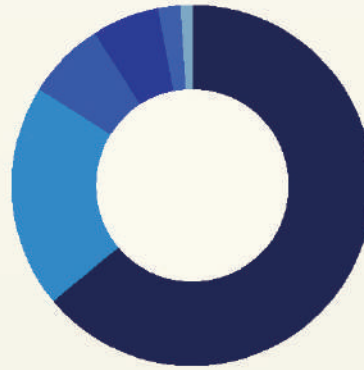
Centerpoint Energy Rscs.	2,605,752
Metropolitan Utilities Dist.	1,095,246
MidAmerican Energy Co.	1,001,942
Northern States Pwr - MN	918,572
Northern States Pwr - WI	913,225
All Other	3,473,298



Midstream

Contracted Capacity (MMth/d)

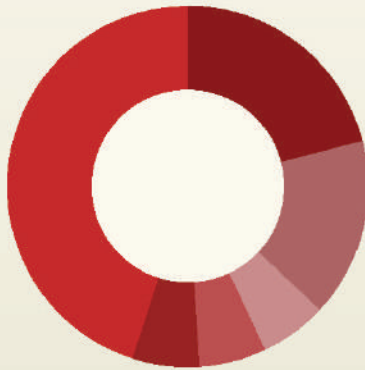
Targa Gas Marketing, LLC	1,077,95
Coronado Midstream, LLC	334
ETC Texas Pipeline, Ltd.	115
WTG Gas Marketing, Inc.	104
Tallgrass Interstate Gas	39,156
All Other	12,834



Industrial

Contracted Capacity (MMth/d)

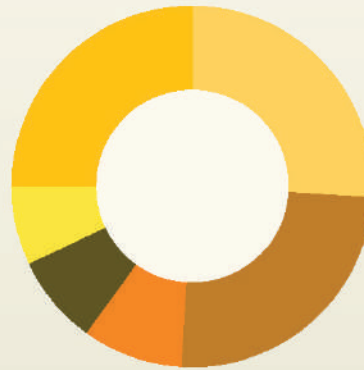
Poet Biorefining	184,965
CF Industries Nitrogen	143,535
Cleveland-Cliffs, Inc.	67,063
Valero Renewable Fuels	51.6
Granite Falls Energy	50.6
All Other	400,684



Trader/Marketer

Contracted Capacity (MMth/d)

Flint Hills Resources, LP	229
Hartree Partners, LP	215,702
Symmetry Energy Solutions	76,926
Eco-Energy Natural Gas	65,567
Tenaska Marketing Ventures	60
All Other	220,495



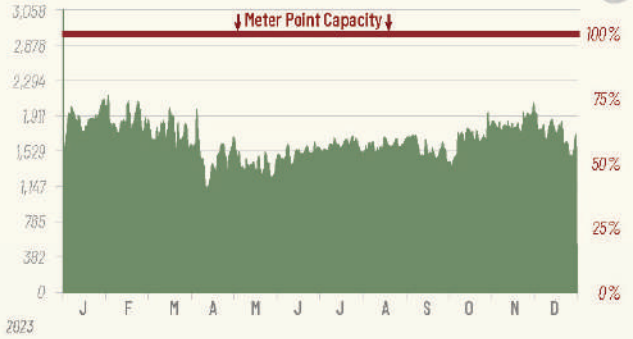
Northern Natural Gas

TOP METER POINTS

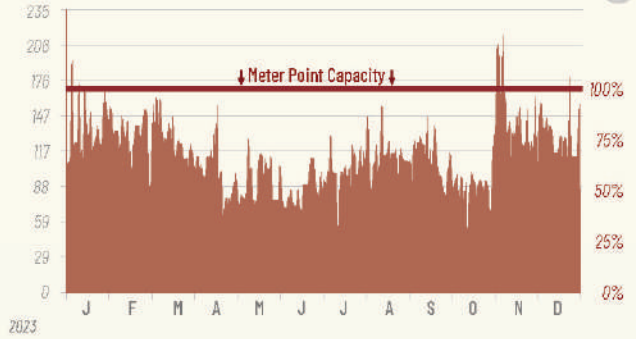


Major Receipt & Delivery Points

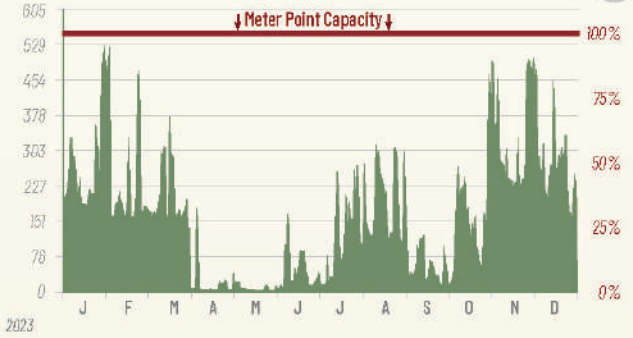
Northern Border - Ventura (Dth/d)



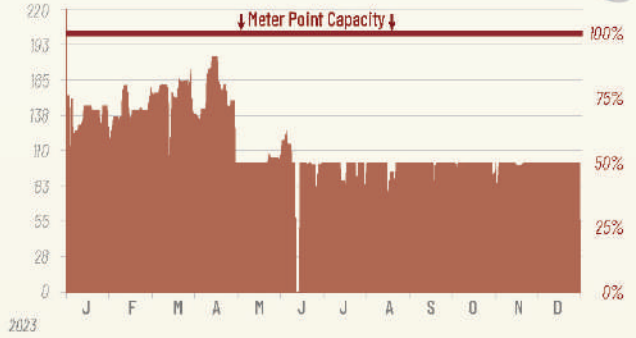
Flint Hills - Pine Bend (Dth/d)



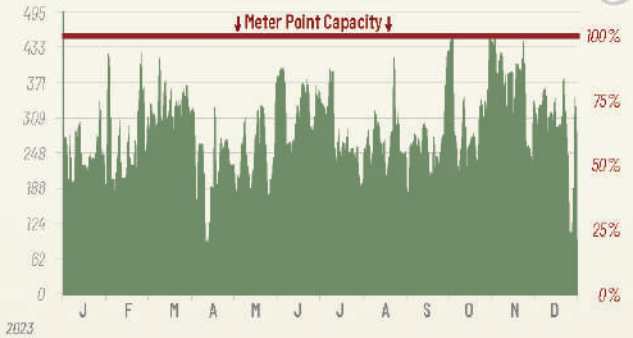
Great Lakes - Carlton (Dth/d)



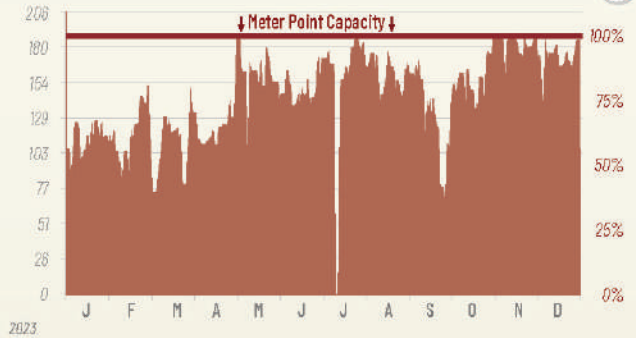
Oasis PL - Bakersfield (Dth/d)



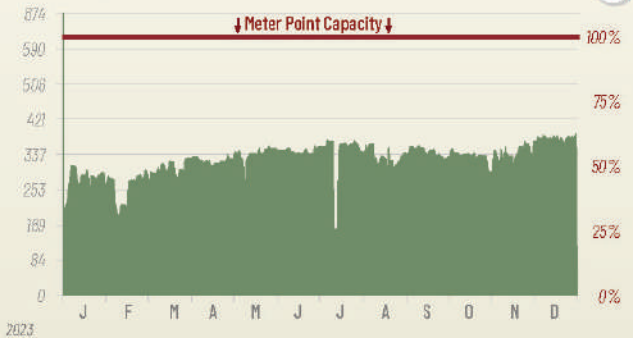
Trailblazer - Beatrice (Dth/d)



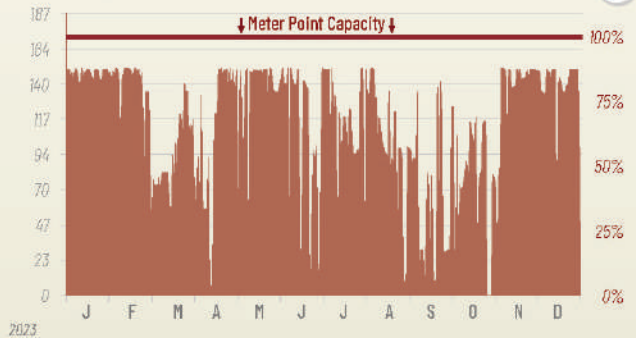
Atmos - Spraberry (Dth/d)



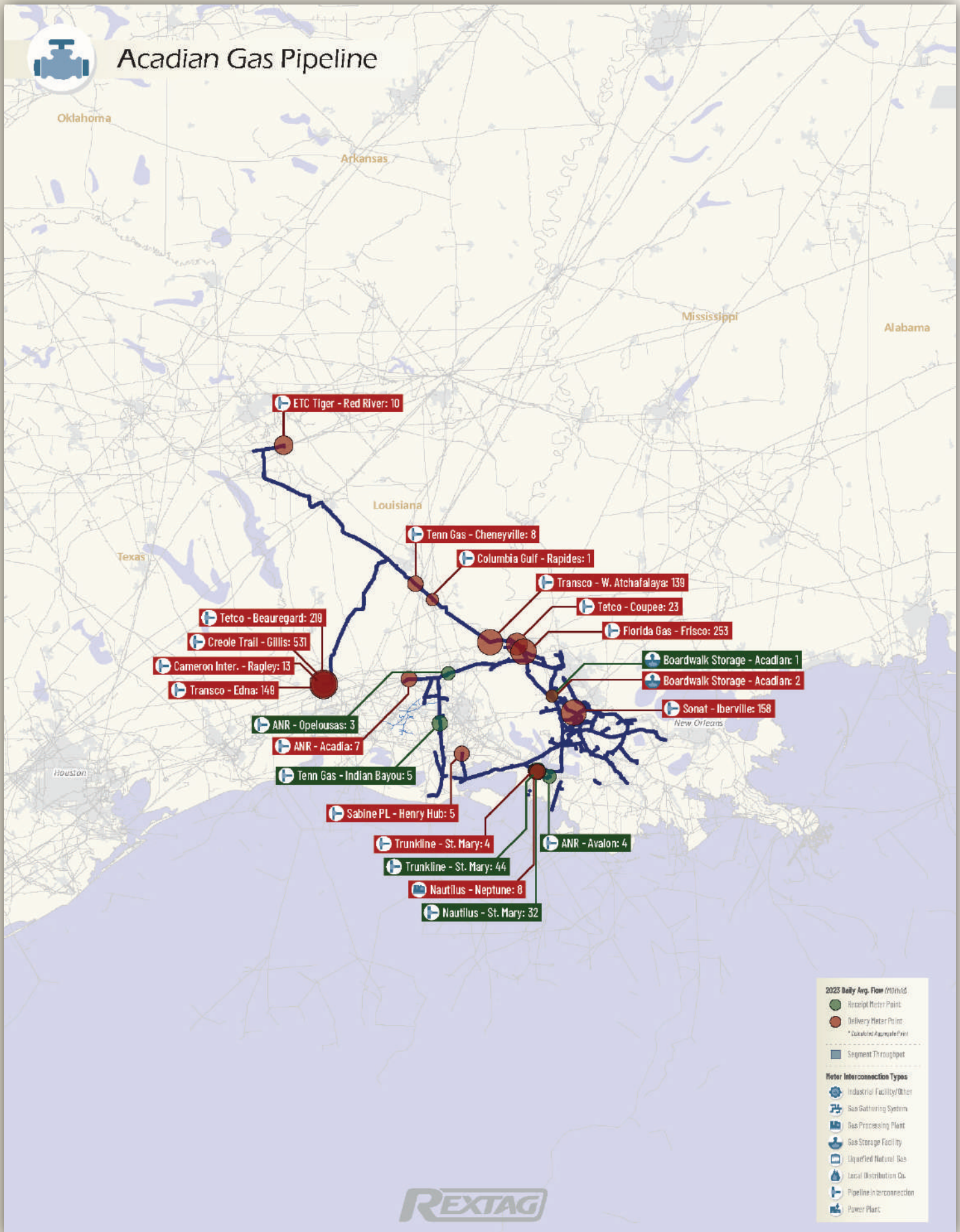
Coronado Mid. - Midmar (Dth/d)



El Paso - Plains (Dth/d)



Intrastate Gas Transmission - Sample Pages 1/2



Acadian Gas Pipeline

STATISTICS & KNOWN METERS POINTS



General Information

Owner: Enterprise Products Partners, LP
 Operator: Enterprise Products Operating, LLC

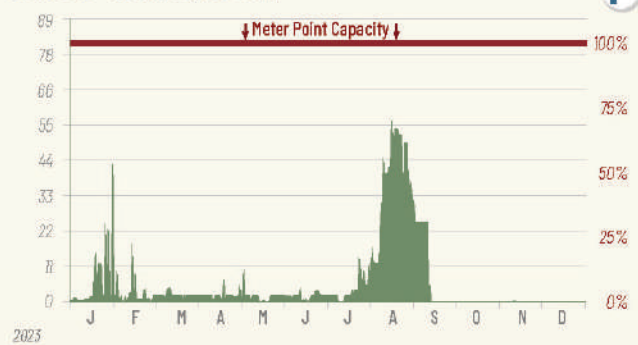
Transmissions Miles: 1,338.7
 Gathering Miles*: 92.4

*Associated, but not a direct part of the intrastate pipeline system.

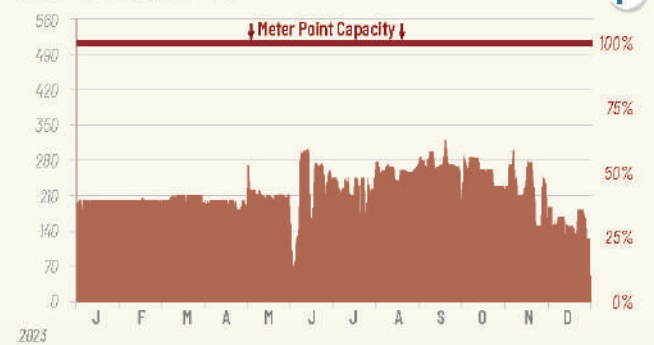


Major "Known" Receipt & Delivery Points

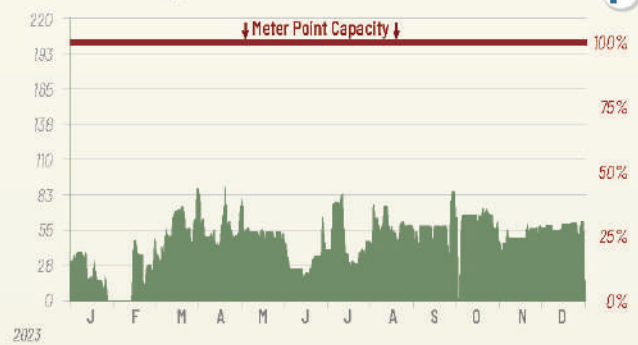
Tenn Gas - Indian Bayou (Dth/d)



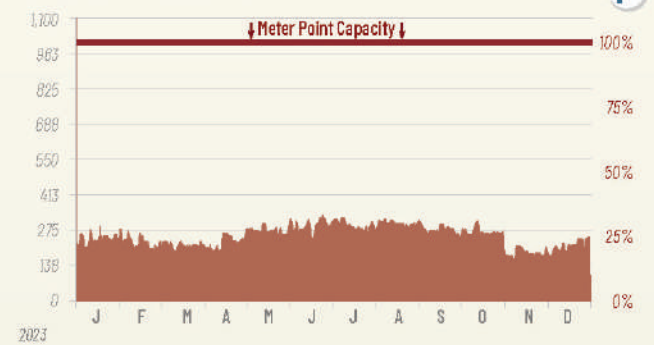
Tetco - Beauregard (Dth/d)



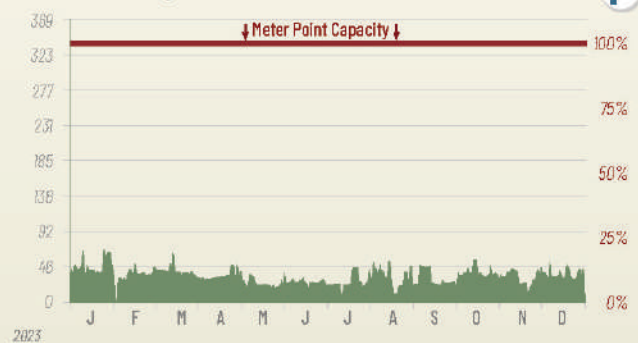
Trunkline - St. Mary (Dth/d)



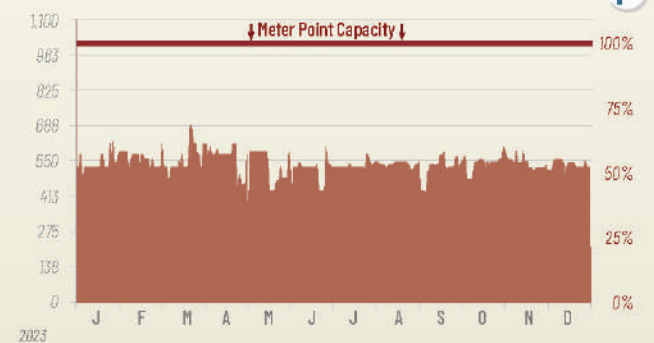
Florida Gas - Frisco (Dth/d)



Nautilus - St. Mary (Dth/d)



Creole Trail - Gillis (Dth/d)



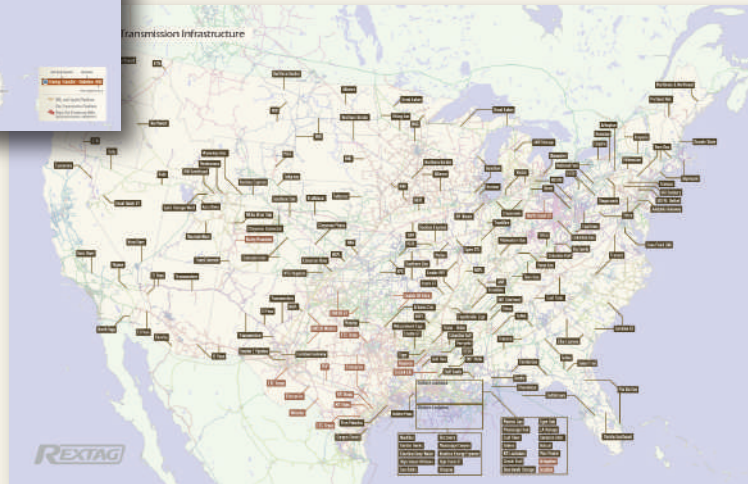
The American Gas Book represents the largest and most ambitious effort to date to visually represent natural gas industry in data and maps. It is designed to serve as *the standard annual reference guide for the U.S. natural gas industry.*

American Gas is broken down into seven chapters covering production, gathering, processing, transportation, LNG exports and market consumption.

Natural Gas Producing Basins
Midstream Gathering & Processing
Natural Gas Processing Plants
Interstate Natural Gas Assets
Intrastate Natural Gas Pipelines
LNG Export Terminals
Natural Gas Regional Markets



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