

NY Electric / Gas Coordination Working Group

March 5, 2012



DEPENDABLE NATURAL GAS

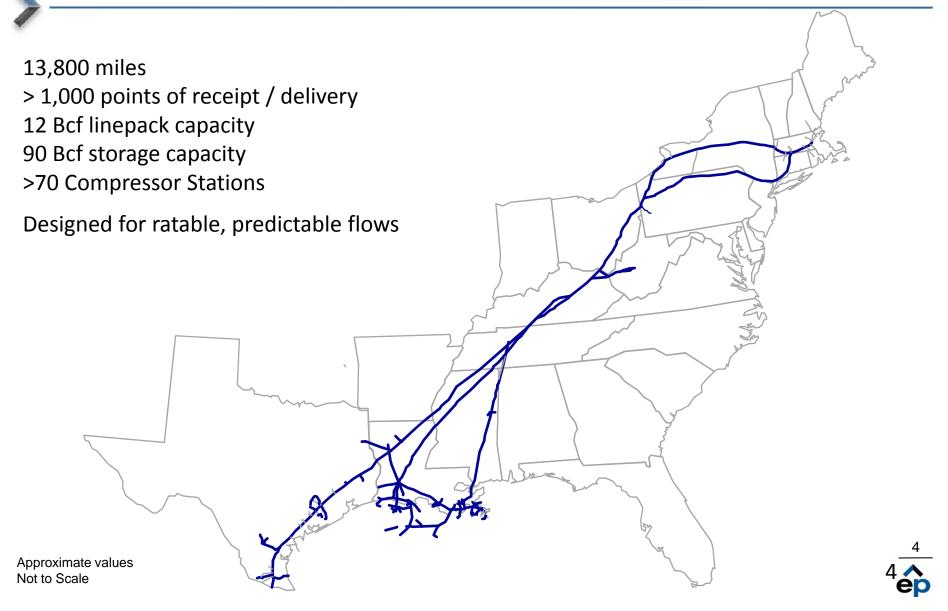
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- General Pipeline Facts
- Power Generation Directly Connected
- Basics of Transacting on Tennessee
- Power Generation Challenges
- Upcoming Expansion Projects

Tennessee Gas Pipeline Company, L.L.C.



General Pipeline Facts

- TGP safely and reliably transports and stores natural gas on behalf of its customers (Shippers) and in accordance with:
 - Its FERC Gas Tariff;
 - Specific service contracts held by Shippers (Transportation, Storage, Firm, Interruptible);
 - Tariff-compliant requests of Shippers (daily nominations, confirmations);
 - Various Types of Service as approved by FERC (FTA, FTG, IT, FS, PAL, AO, ES, etc.)

TGP does not:

- Have legal title to natural gas in its facilities
- Second guess / forecast Shippers' daily needs
- Provide services not specifically contracted for and FERC-approved
- Provide guaranteed hourly firm contractual service
- Own / operated facilities not specifically certified by FERC
- Own / operate significant redundant facilities



General Pipeline Facts



Common Terms:

- Linepack: how much Shippers' gas, physically, in the pipe at any given location. Linepack ↑ Pressure ↑
- Maximum Allowable Operating Pressure (MAOP): by law, can never exceed at any location.
- Operational Flow Order (OFO): specific public warnings issued to alleviate conditions which threaten or could threaten safety, integrity, efficiency, or reliability. Financial penalties.
 - TGP has broad authority to take actions necessary to protect the operational integrity of its interstate pipeline system as conditions warrant.
- Flow Control: a pipeline's ability to forcefully control the rate of natural gas flow at a specific receipt or delivery location.

General Pipeline Facts



Services:

- <u>Firm Service(s):</u> transportation (or storage) service for which TGP facilities have been specifically designed. Per contract, obligates TGP to receive at Primary points of receipt and deliver at Primary points of delivery natural gas for Shipper's account up to a specific TQ. Sole "guaranteed" service.
 - Secondary Firm (as applicable): firm service, though interruptible, from points of receipt and/or delivery other than Primary.
 - Secondary In Path, Secondary Out of Path
- Interruptible Service(s): transportation (or storage) services for which TGP facilities have NOT been specifically designed. Interruptible services occur, by definition, in part to the extent Firm services are not utilized and therefore are not guaranteed up front.
- <u>Note:</u> merely constructing an asset, physically connecting to a pipeline, and holding a transportation contract does not entitle a party to any natural gas. Nominate, Confirm, and Schedule daily in accordance with the Tariff.

Northeast Market Area



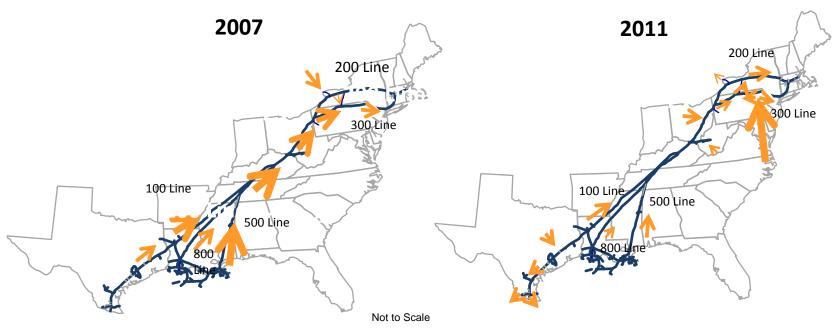
NY LDC Shippers:

National Fuel Distribution, Consolidated Edison, Orange & Rockland, National Grid, Central Hudson G&E, NYSEG, Rochester G&E, Niagara Mohawk, Corning Nat Gas



Tennessee Gas Pipeline Flow Changes





Designed to deliver TX-LA gas evenhourly over a 24 hour day

Massive Marcellus Receipts > 2.0 Bcf/d

Maintenance performed May – Oct

Maintenance performed whenever possible

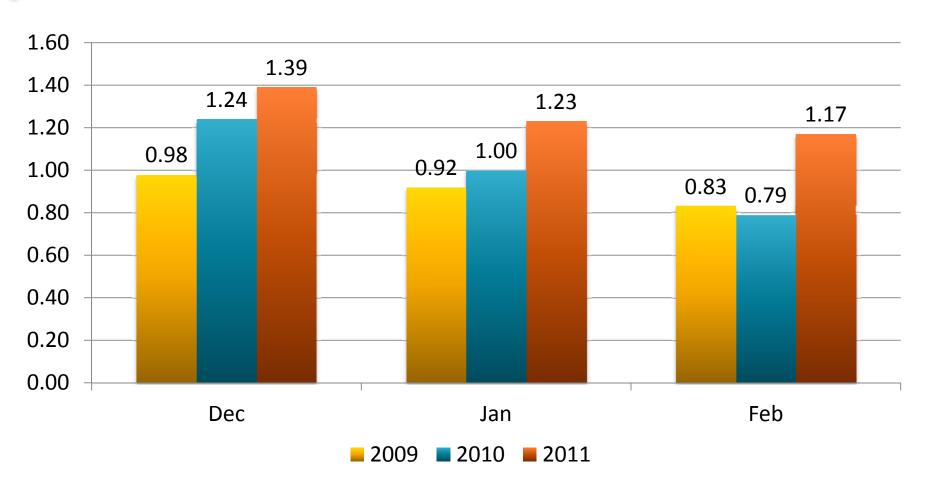
Heavy Utilization of TX, GOM lines

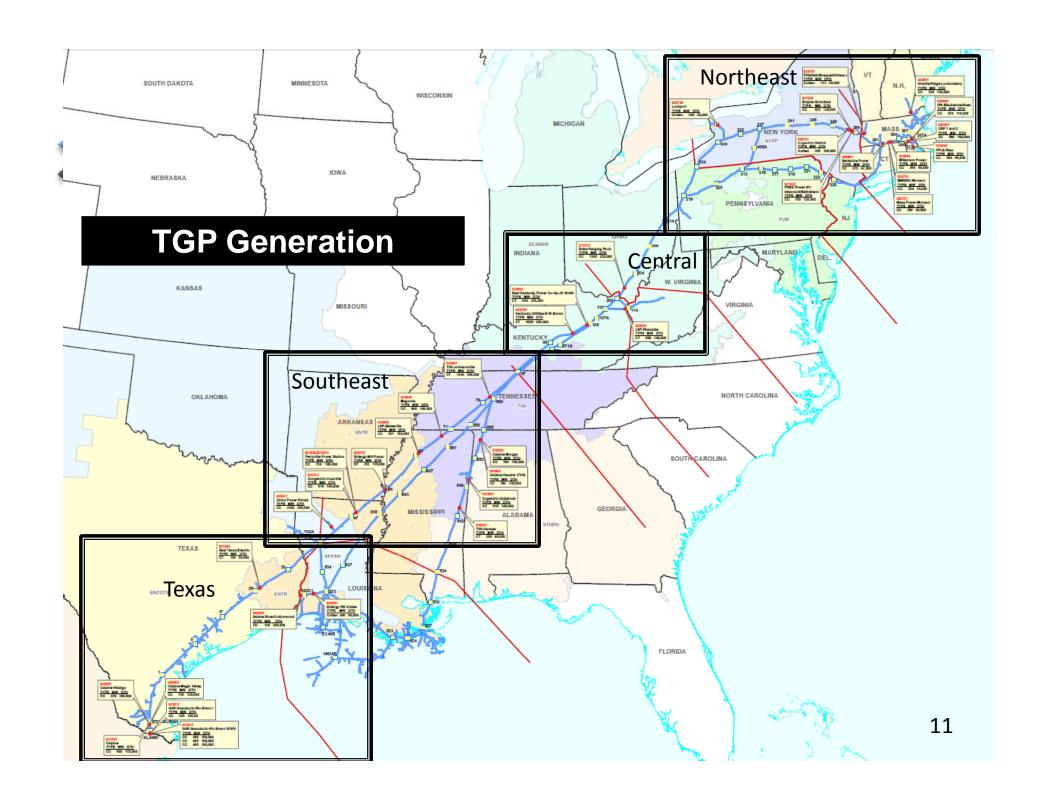
Northeast near capacity most every day TX, GOM sources less



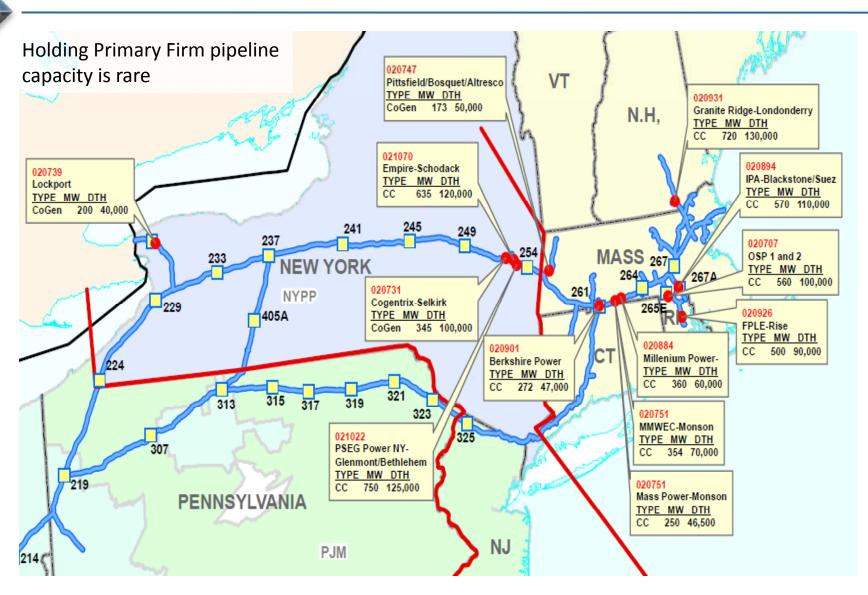
TGP System Power Plant Demand Dec, Jan, Feb, Avg Bcf/d







Northeast Power Plants



Transacting on TGP

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Other Common Terms:

- <u>Nomination:</u> in accordance with contract and Tariff, where, when, and how much gas Shippers request to be transported (or stored) by TGP. Shippers' responsibility.
- <u>Confirmation:</u> process by which parties who operate actual points of receipt or points of delivery approve of the flow of gas into / out of TGP. Operators' responsibility
- Scheduled Quantity: natural gas that is nominated by a Shipper, confirmed by an operator, and scheduled by TGP. TGP's responsibility.
 - Note: TGP stores and transports gas each day that has been Scheduled.
- <u>Transportation Quantity (TQ):</u> the maximum daily quantity of gas TGP agrees to transport each day during the term of a Shipper's contract.
- <u>Capacity Path:</u> primary receipt point(s) to primary delivery point(s)

Transacting on TGP

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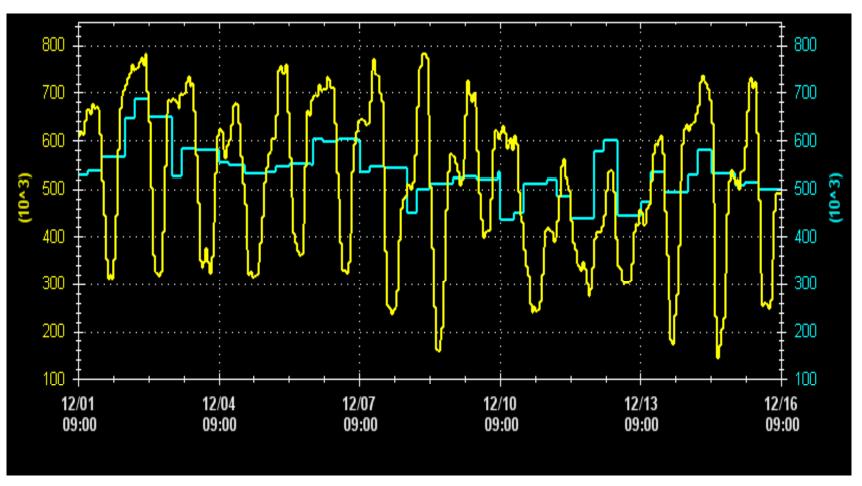
Getting Your Gas: Nominating, Confirming, Scheduling:

● Gas Day: 9:00 am – 9:00 am

All times Central Clock Time	Timely Cycle (start of Gas Day)	Evening	Intra-day Cycle 1	Intra-day Cycle 2
Nomination Deadline	11:30 am	6:00 pm	10:00 am	5:00 pm
Confirmation Deadline	3:30 pm	9:00 pm	1:00 pm	8:00 pm
Scheduled Volumes Available	4:30 pm	10:00 pm	2:00 pm	9:00 pm
Effective Time	9:00 am next day	9:00 am next day	5:00 pm current day	9:00 pm current day

Industry standards Hourly nomination modifications available 10:00~pm-8:00~am All volumes stated in daily quantities.

North East <u>Power Plants</u> – Typical Heavy Period Volumes Scheduled (blue) Pvs Actual Hourly Flow (yellow)



Hourly flexibility is provided on a <u>best efforts</u> basis. Never guaranteed, and never at the expense of Primary Firm shippers in operational compliance.

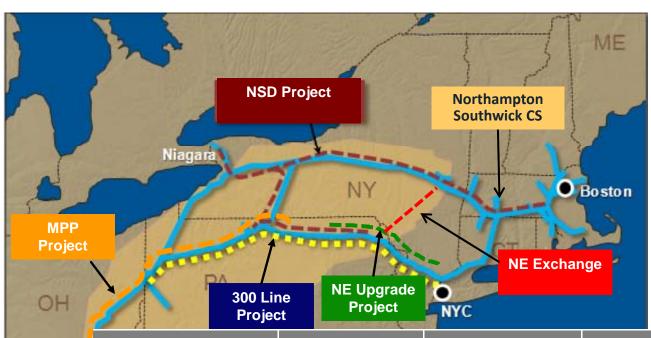
Conclusion



- Rights of Primary Firm Shippers and Tariff-compliant operators must be protected.
- Operational integrity and safety can never be jeopardized.
- Firm peak natural gas supplies must be contracted for
- Existing facilities do not allow for No Notice Hourly Service
- TGP will design, build, contract, and operate to meet the Firm market's needs.

Marcellus Supply Drives Expansions





Expansions shown increase Marcellus takeaway but do not increase direct deliveries in the northeast

	Project	Capacity (Dth/d)	Miles of Pipe	New Compression (Hp)	In-Service
5	300L Project	350,000	127	55,000	Nov 1, 2011
	NSD	250,000	7	N/A	Nov 1, 2012
7	Northampton	10,400	N/A	2,000	Nov 1, 2012
	NE Upgrade	636,000	40	22,310	Nov 1, 2013
	MPP Project	240,000	8	N/A	Nov 1, 2013
	NE Exchange	Up to 700,000	~ 120	~ 40,000	In development

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Q&A





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