

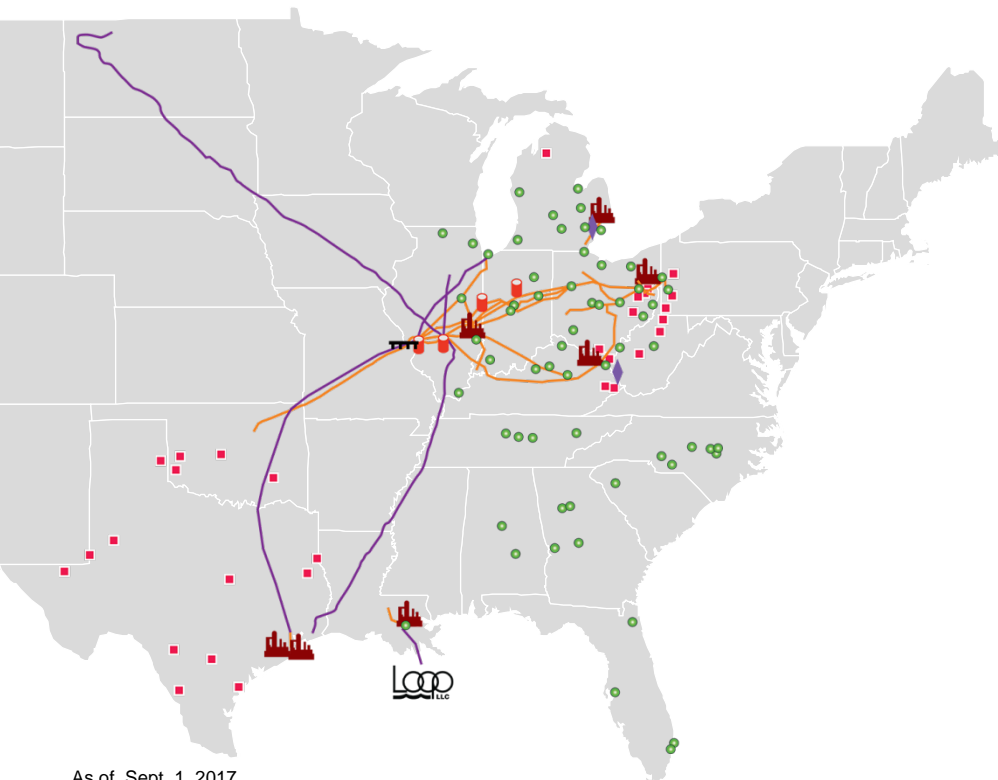


West Virginia Governors Energy Summit

Jim Crews, Vice President Business Development

October 19, 2017

About MPLX



As of Sept. 1, 2017
See appendix for legend

- Growth-oriented, diversified MLP with high-quality, strategically located assets with leading midstream position
- Two primary businesses
 - **Logistics & Storage** includes transportation, storage and distribution of crude oil, refined petroleum products and other hydrocarbon-based products
 - **Gathering & Processing** includes gathering, processing, and transportation of natural gas and the gathering, transportation, fractionation, storage and marketing of NGLs
- Investment-grade credit profile with strong financial flexibility
- MPC as sponsor has interests aligned with MPLX
 - MPLX assets are integral to MPC
 - Growing stable cash flows through continued investment in midstream infrastructure

Gathering & Processing

Segment Overview



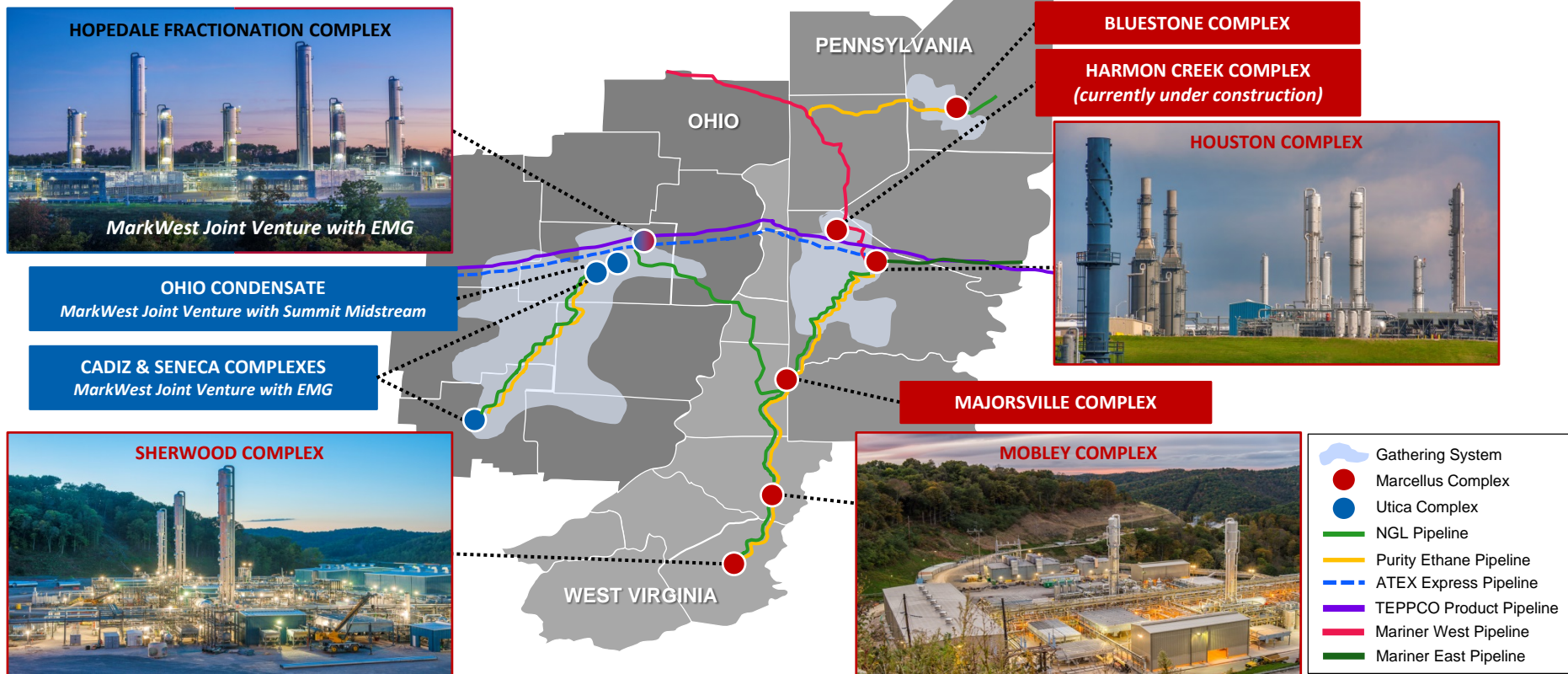
- One of the largest NGL and natural gas midstream service providers
 - Gathering capacity of 5.6 Bcf/d
 - ~60% Marcellus/Utica; ~40% Southwest
 - Processing capacity of 8.0 Bcf/d*
 - ~70% Marcellus/Utica; ~20% Southwest
 - C2 + Fractionation capacity of 567 MBPD**
 - ~90% Marcellus/Utica
- Primarily fee-based business with highly diverse customer base and established long-term contracts

*Includes processing capacity of non-operated joint venture

**Includes condensate stabilization capacity

Marcellus/Utica Overview

3.5 Bcf/d Gathering, 5.8 Bcf/d Processing & 491 MBPD C2+ Fractionation Capacity

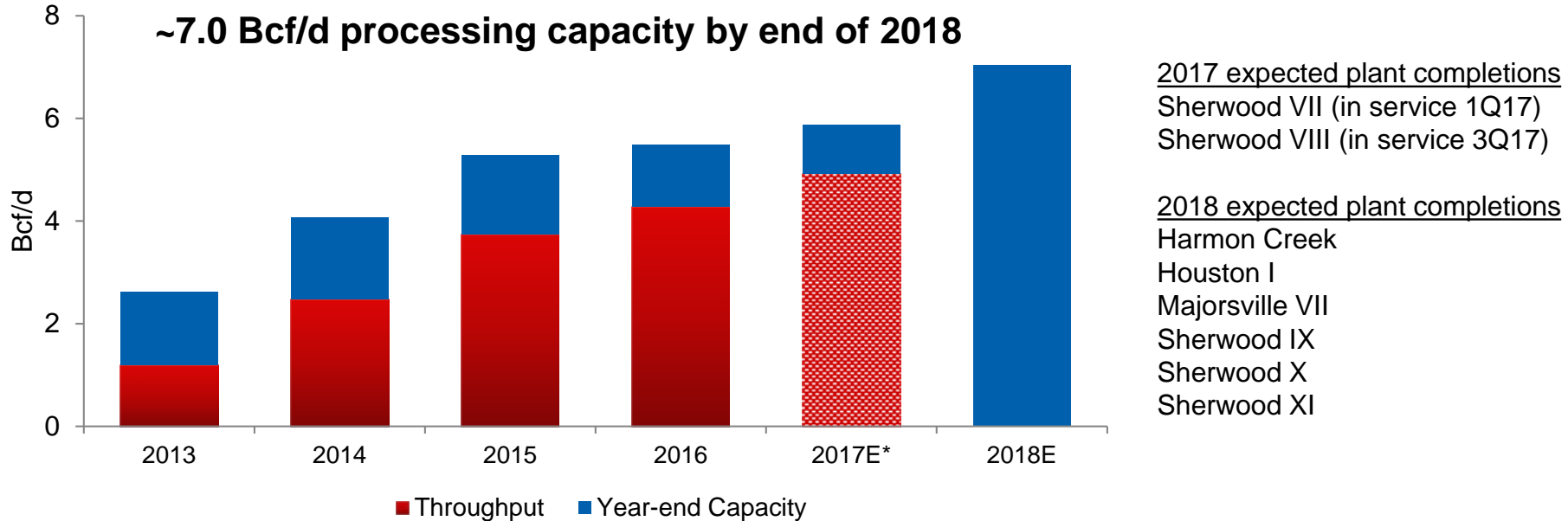


Marcellus/Utica Processing Capacity

Building infrastructure to support basin volume growth



Currently operate ~66% of processing capacity in Marcellus/Utica Basin



Note: 2013 through 2015 include MarkWest volumes prior to acquisition by MPLX

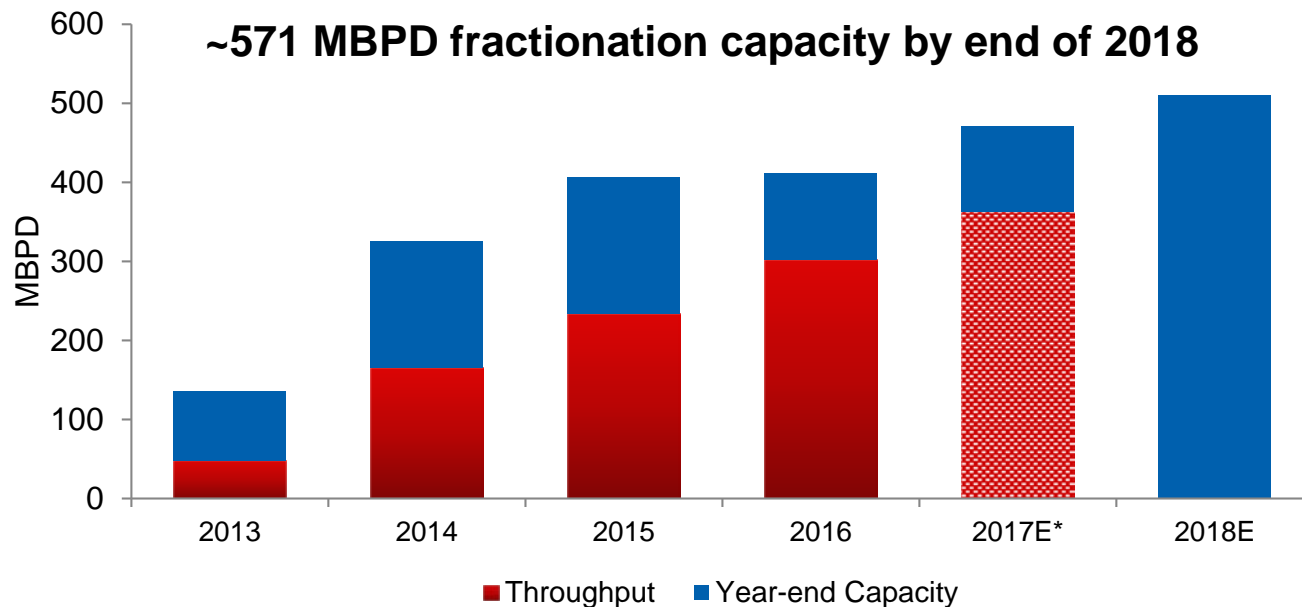
*2017 throughput assumes 15% growth rate over prior year

Marcellus/Utica Fractionation Capacity

Building infrastructure to support growing C2 and C3+ demand



Currently operate ~55% of fractionation capacity in Marcellus/Utica Basin



2017 expected plant completions
Hopedale III C3+ (in service 1Q17)
Bluestone C2 (in service 3Q17)
Majorsville II C2

2018 expected plant completions
Harmon Creek C2
Sherwood C2

Note: 2013 through 2015 include MarkWest volumes prior to acquisition by MPLX

*2017 throughput assumes 20% growth rate over prior year

What is Wet Gas?

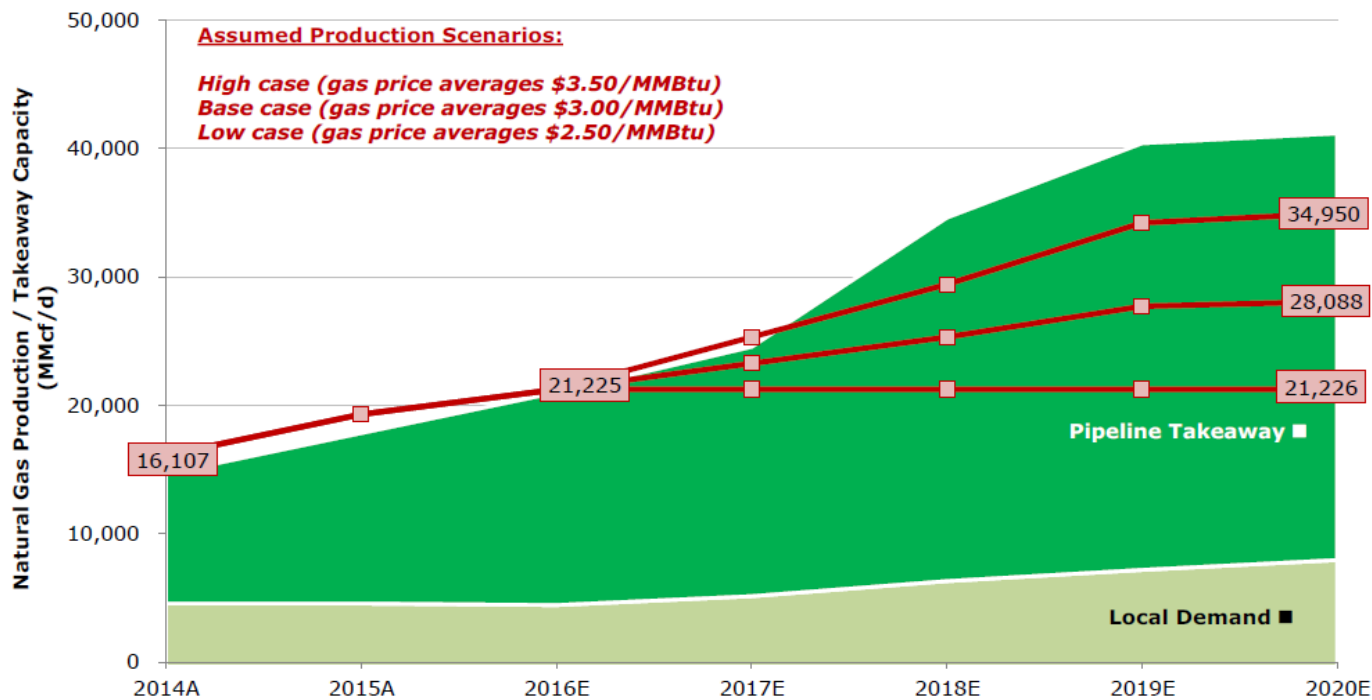
Typical Wet Gas Composition

Component	Mole%	Gallons Per Mcf (GPM)	Common Name
Methane	74.22		Natural Gas, Pipeline Gas, Residue
Ethane	15.62	4.17	1/3 Natural Gas, Pipeline Gas, Residue
Propane	5.46	1.50	NGL or LPG
Iso Butane	0.655	0.21	NGL or LPG
Normal Butane	1.437	0.45	NGL or LPG
Iso Pentane	0.48	0.17	Drip Gas, Condensate or Naptha
Normal Pentane	0.54	0.19	Drip Gas, Condensate or Naptha
Hexanes+	1.06	0.46	Drip Gas, Condensate or Naptha
Inerts(N2, O2, CO2)	0.52		
Total	100	7.15	

How much do we have?

Appalachian Shale Supply vs. Price

Exhibit 5. Marcellus-Utica: Supply Versus Local Demand And Pipeline Takeaway



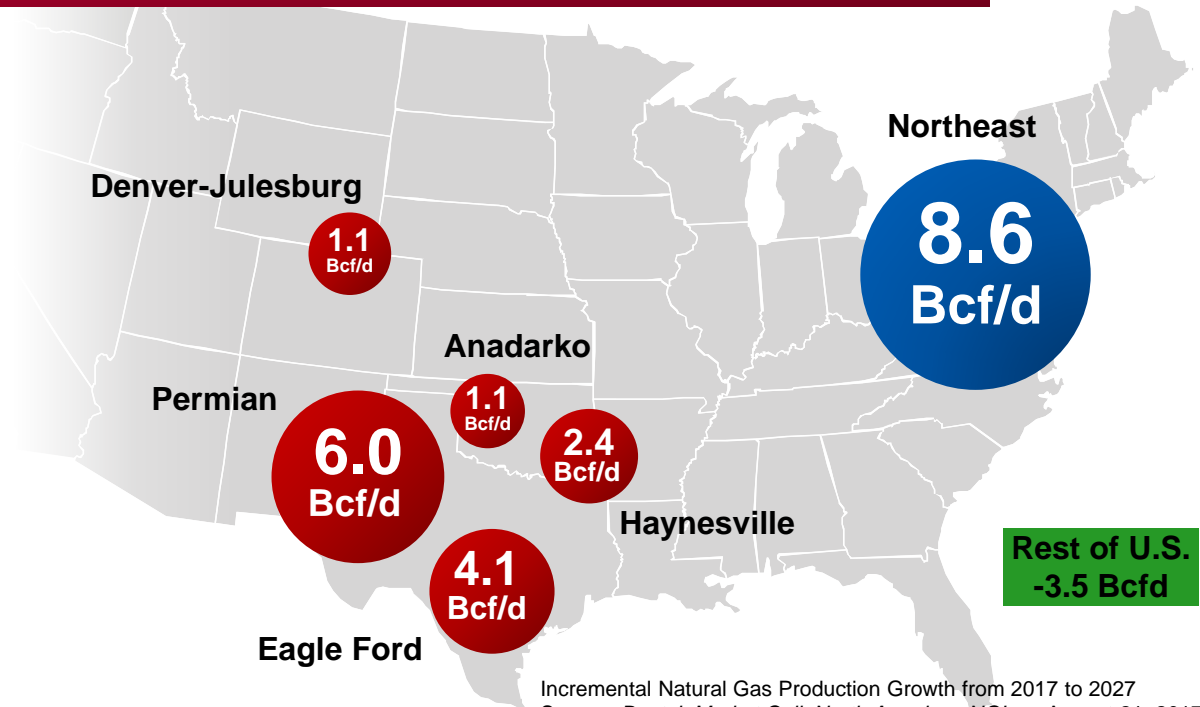
Source: Company data, EIA, and Wells Fargo Securities, LLC estimates

Natural Gas Supply Growth Forecast

Marcellus/Utica Basin is the Leading Growth Play

~43% of total U.S. growth is expected to occur in Northeast

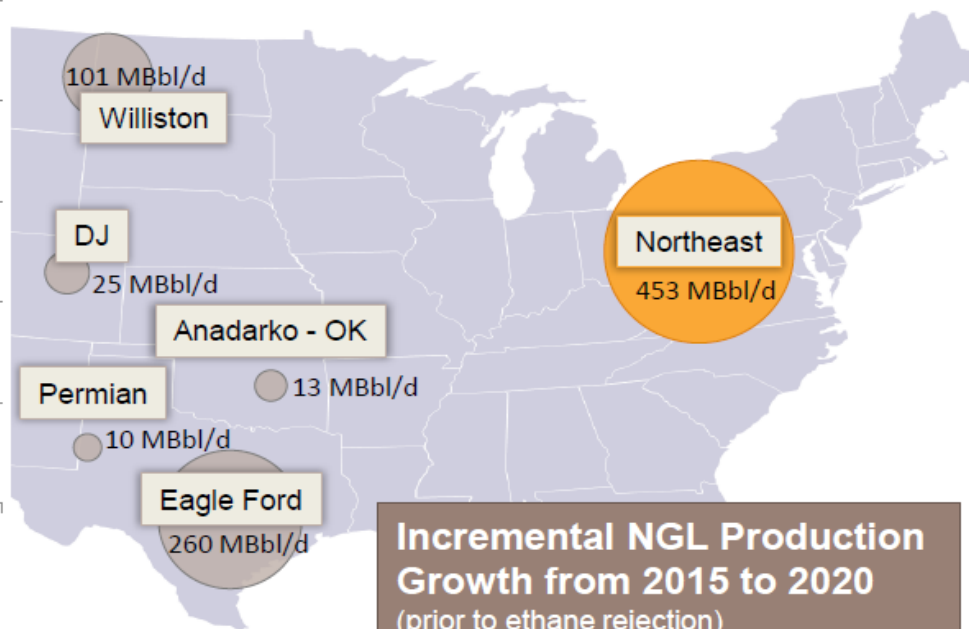
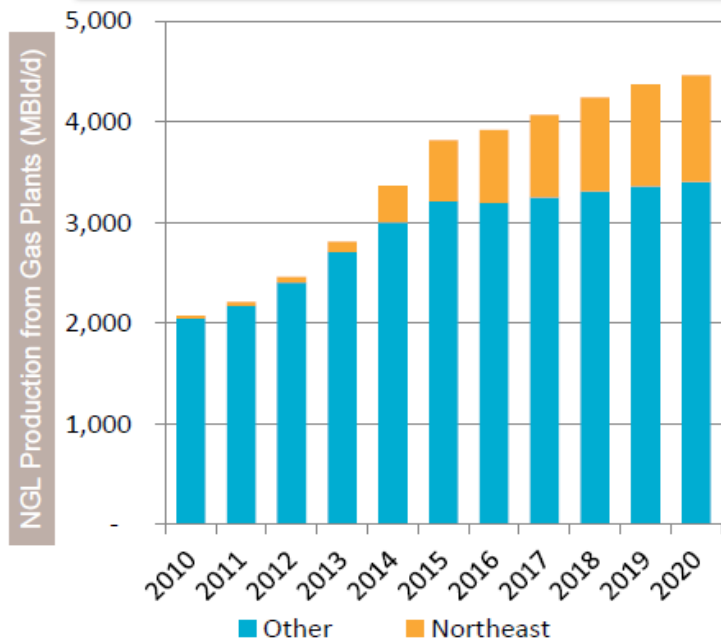
- Total U.S. natural gas supply is forecasted to grow by ~20 Bcf/d from 2017 to 2027
- MPLX well-positioned as largest processor in Northeast with growing backlog of projects in Marcellus/Utica and other prolific basins



Incremental Natural Gas Production Growth from 2017 to 2027
Source: Bentek Market Call: North American NGLs – August 21, 2017

Northeast NGL supply is Rapidly Increasing

Northeast NGL production is forecasted to account for 24% of total U.S. NGL production in 2020

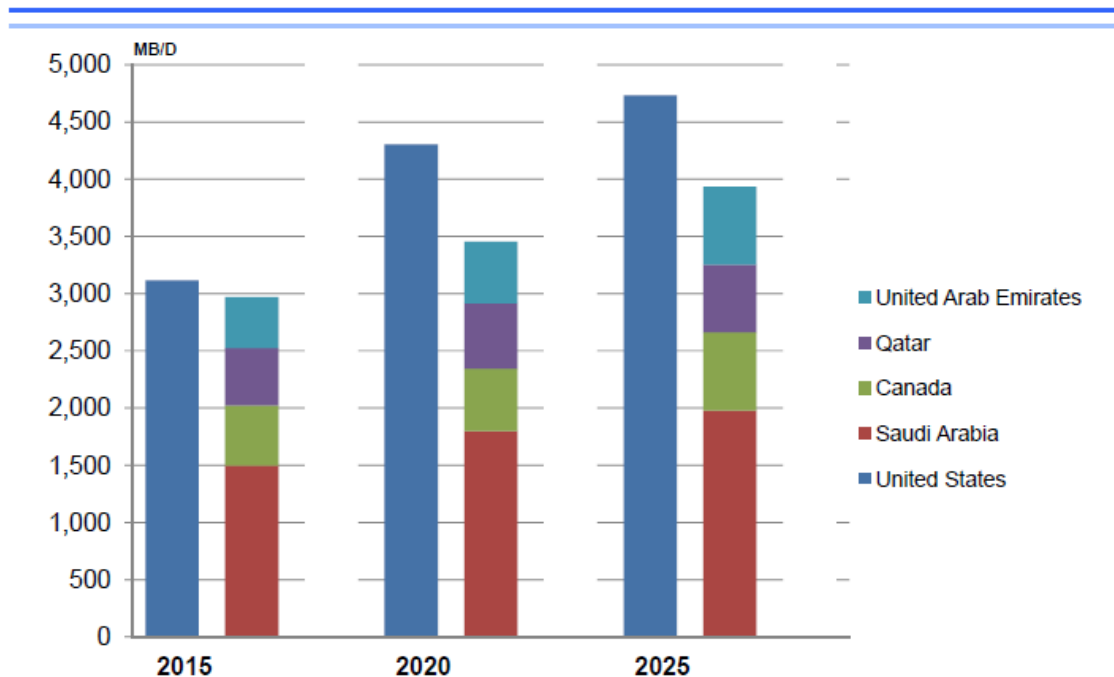


**Incremental NGL Production
Growth from 2015 to 2020
(prior to ethane rejection)**

Source: Bentek Market Call: North American NGLs - 7.28.15, EIA

The U.S. is the Critical LPG Supply

Global NGL Field Production



Economics

Manufacturing Opportunities in a Low-Price Gas Environment

Methane

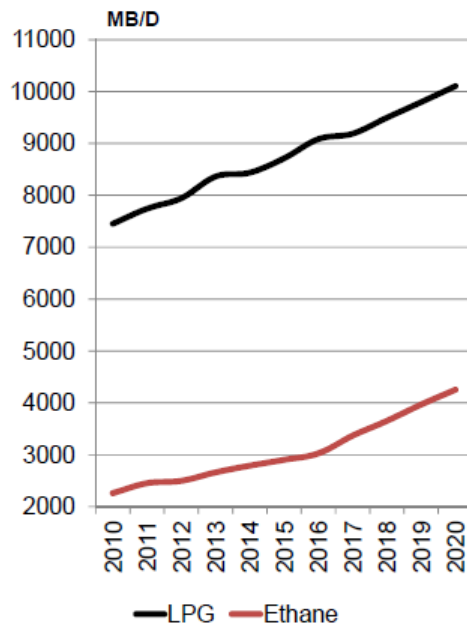
- Heating Fuel
- Electricity-Combustion Turbines
- Steel - Direct Reduction Iron (DRI)
- Ammonia - Fertilizer
- Ammonia - Explosives
- Aluminum
- Cement
- Glass

Ethane, Propane, Butane, and Condensate

- Ethylene Oxide
- Ethylene Glycol
- Polyethylene
- Propylene Oxide
- Propylene Glycol
- Polypropylene
- Butylene
- Iso-butane
- Diluent
- Jet Fuel
- Gasoline
- Light and Heavy Naptha
- Lubricants

The World Needs U.S. LPG Supply

Global Demand: Ethane and LPG



- **Strong global LPG demand this decade**
 - » 2010-2014 – 3.4%
 - » 2015-2020 – 3.1%
- **Global ethane demand accelerating, led by the U.S.**
 - » 2010-2014 – 6.5%
 - » 2015-2020 – 7.6%

Implied Appalachian Ethane Price-cents per Gallon (cpg)-Producers Perspective

	Appalachia	Mt. Belvieu, TX	Sarnia, Ontario	Philly, PA Marcus Hook
DTI S. Point Price-\$/Dth (Winter Strip)	\$2.69	\$2.69	\$2.69	\$2.69
DTI S. Point-cpg	17.9	17.9	17.9	17.9
C2 Value	17.9	26*	17.9	17.9
ATEX		(15)		
<u>Mariner</u>			<u>(15)</u>	<u>(20)</u>
Netback	17.9	11.0	2.9	(2.1)
Netback-\$/Dth	\$2.69	\$1.65	\$0.44	(\$0.32)

Transportation Rates

- Appalachia to Marcus Hook = 20 cpg (ME1-2)
- Appalachia to Sarnia via Mariner West = 15 cpg.
- Appalachia to MTB via ATEX = 15-25 cpg.
- Marcus Hook to ARA = 5-10 cpg.
- MTB to ARA = 5-10 cpg.

ARA = Amsterdam, Rotterdam, Antwerp

*C2 Value at Mt. Belvieu, TX

C2 Cracker Expansions Add 800 MBPD of Demand

Company	Location	Ethane Demand-MBPD	In Service - Start-Up
LyondellBassell	Corpus Christi, TX	22.4	Q1 2017
Dow	Plaquemine, LA	12.3	Q1 2017
OxyChem JV*	Ingleside, TX	33.6	Q1 2017
Dow*	Freeport, TX	92.7	H2 2017
Indorama*	Lake Charles, LA	16.1	H2 2017
Exxon Mobil*	Baytown, TX	92.7	H2 2017
Conoco Phillips*	Cedar Bayou, TX	92.7	Q1 2018
Shintech*	Plaquemine, LA	30.8	Q2 2018
Sasol*	Lake Charles, LA	92.7	Q4 2018
Westlake/Lotte*	Lake Charles, LA	61.6	Q1 2019
Formosa*	Point Comfort, TX	98.0	Q2 2019
Total, Nova, Borealis	Port Arthur, TX	61.6	Q1 2021
Shell Appalachia	Monaca, PA	100.0	TBD

*New Plant

Source: Eantage

Value Added Manufacturing Deficiencies

	Appalachia	Mt. Belvieu
<i>NGL Liquid Trading Point</i>	No	Yes
<i>Underground NGL Storage-Barrels</i>	0	213,000,000
<i>Fractionation-Barrels/day</i>	550,000	1,623,000
<i>Steam Crackers-C2-Barrels</i>	0 going to 0.146 MM in 2021	1.1MM going to 1.5 MM in 2018
<i>Propane Dehydrogenation Units-PDH- Barrels/day</i>	0	35,000
<i>Condensate Splitters-Barrels/day</i>	60,000 (Marathon-Canton, Catlettsburg)	
42 gallons = 1 Barrel		

- The Appalachian Basin produces 33% of total US natural gas.
- The US Produces 50-60% of the world's NGL's.
- Appalachia produces 20% of US NGL's including C2 by 2020.
- The lowest cost natural gas and NGL are in the Appalachian Basin for the foreseeable future.
- Appalachian manufacturer's of base and derivative products have a significant price advantage.
- Lack of a Liquid NGL and C2 trading hub forces producers'/manufactures' take on expensive, long term transportation contracts to get to market.
- NGL storage is the first step in an Appalachian manufacturing renaissance.

