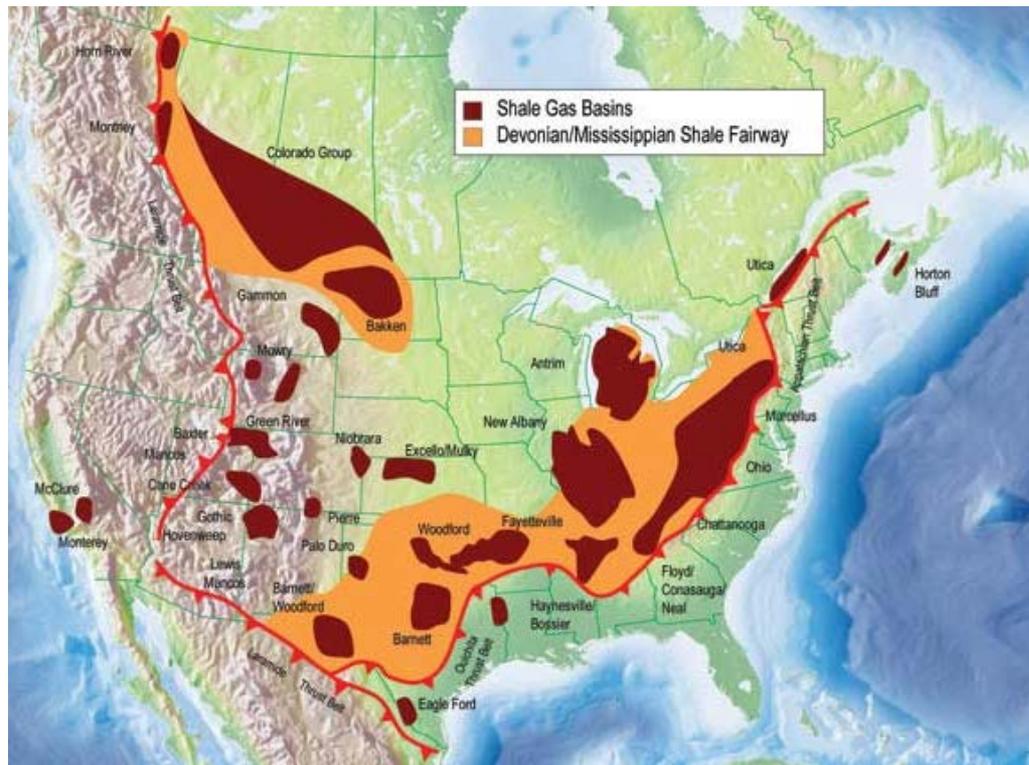


Northeast Supply

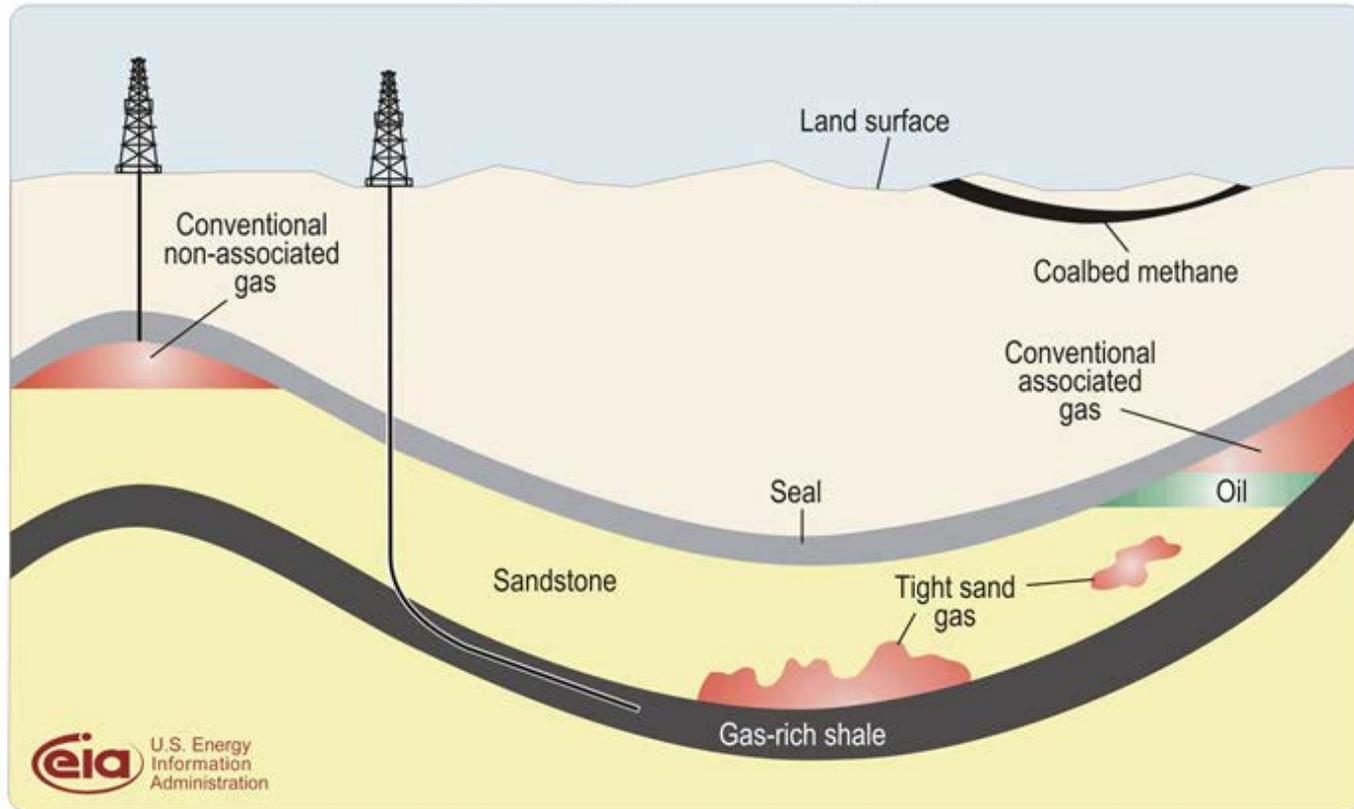
North American Shale Resources



- **Most shale resources are gas-oriented**
 - Some shale gas is dry (Fayetteville)
 - Most shale gas has both dry and wet regions (Barnett, Eagle Ford, Marcellus, etc.)
- **Certain shale resources are mostly oil-oriented (Bakken)**
- **Gas in the Utica and Marcellus plays has high liquids content**
 - In the range of 6 to 8 gpm (depending on the location)
 - Lean Gas at Hanesville is 0.3 to 1.5
 - Eagleford is 4 to 9
 - Bakken is 10 to 12

Conventional v. Unconventional

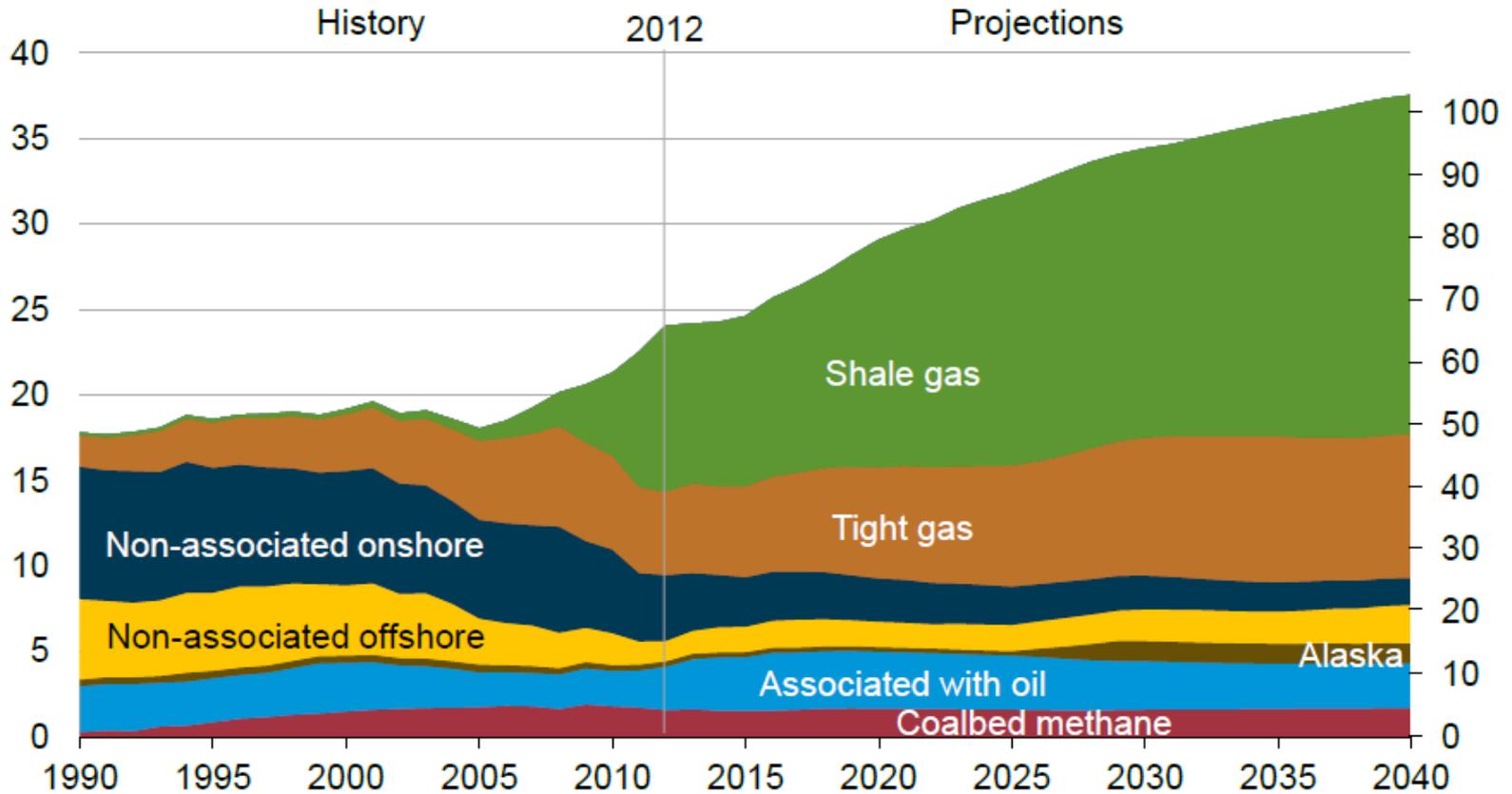
Schematic geology of natural gas resources



Projected Natural gas Production

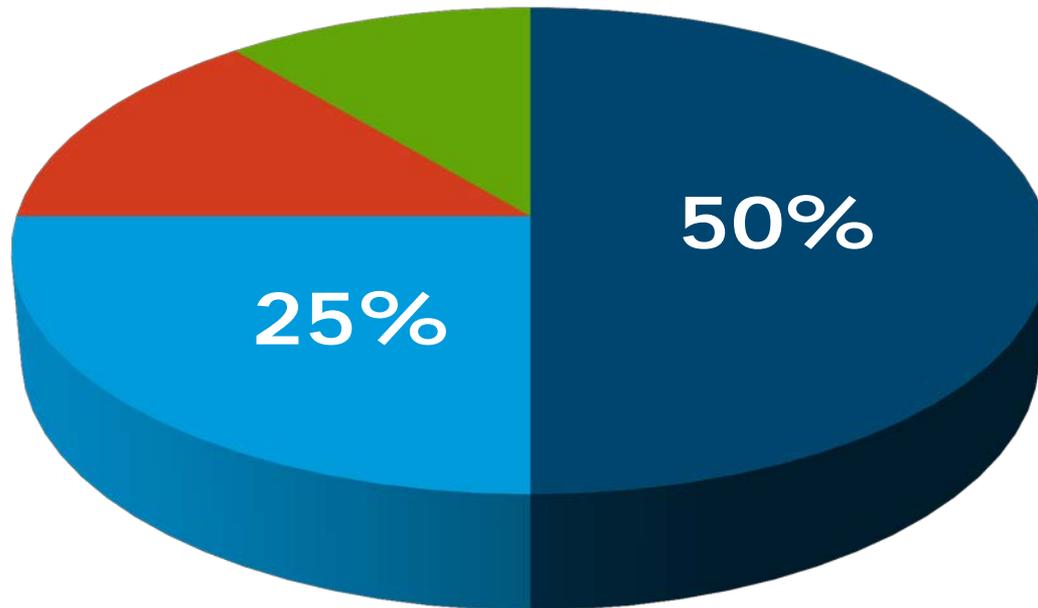
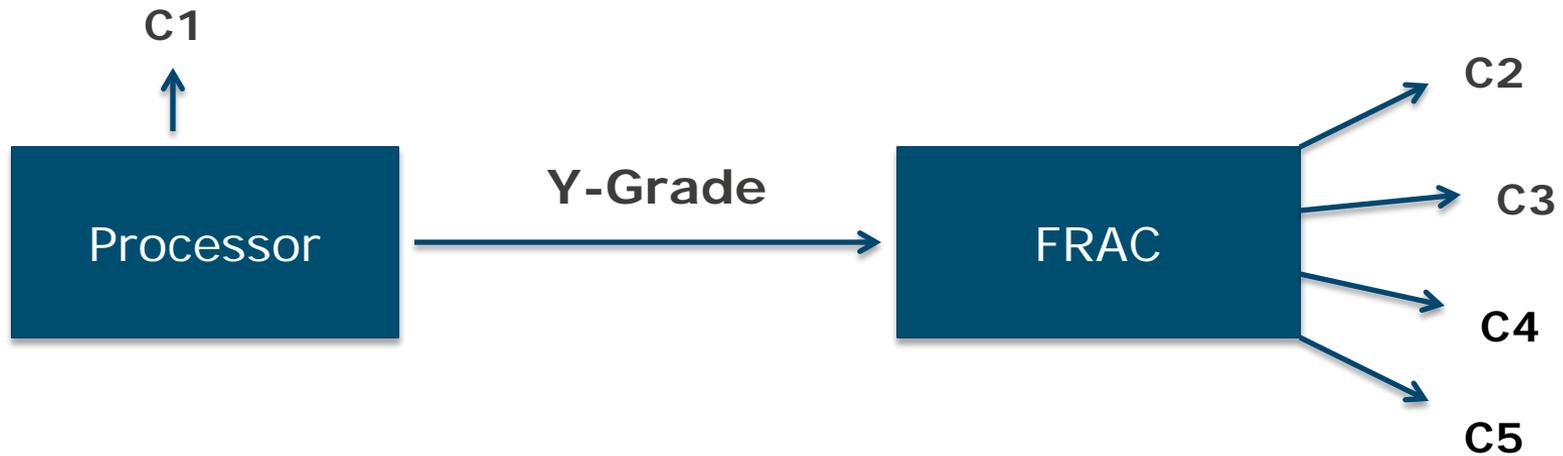
U.S. dry natural gas production
trillion cubic feet

billion cubic feet per day



Source: EIA, Annual Energy Outlook 2014 Early Release

NGL Stream / Y-Grade

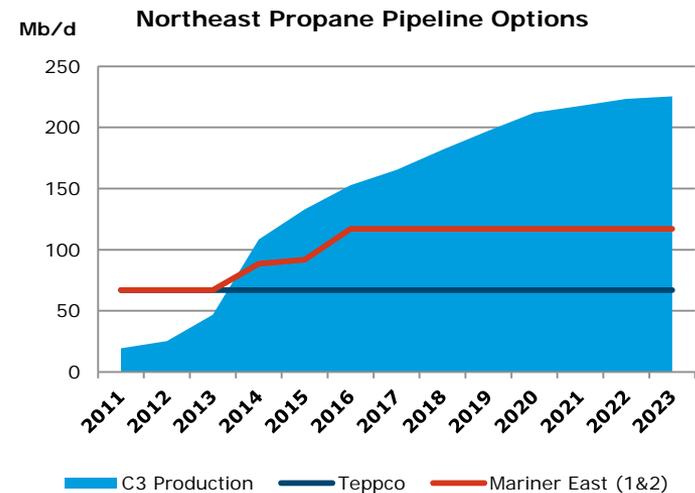
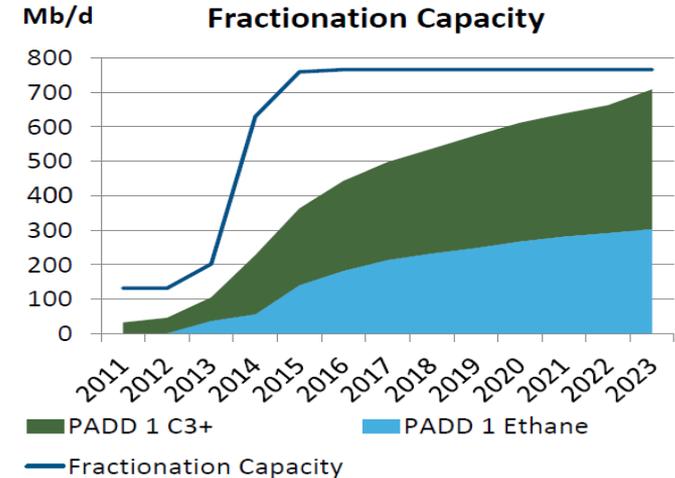


- C2-Ethane
- C3-Propane
- C4 - Butane
- C5-Natural Gasoline

Northeast Growing Supply & Limited Infrastructure

Growing Supply Increases Seasonal Imbalances

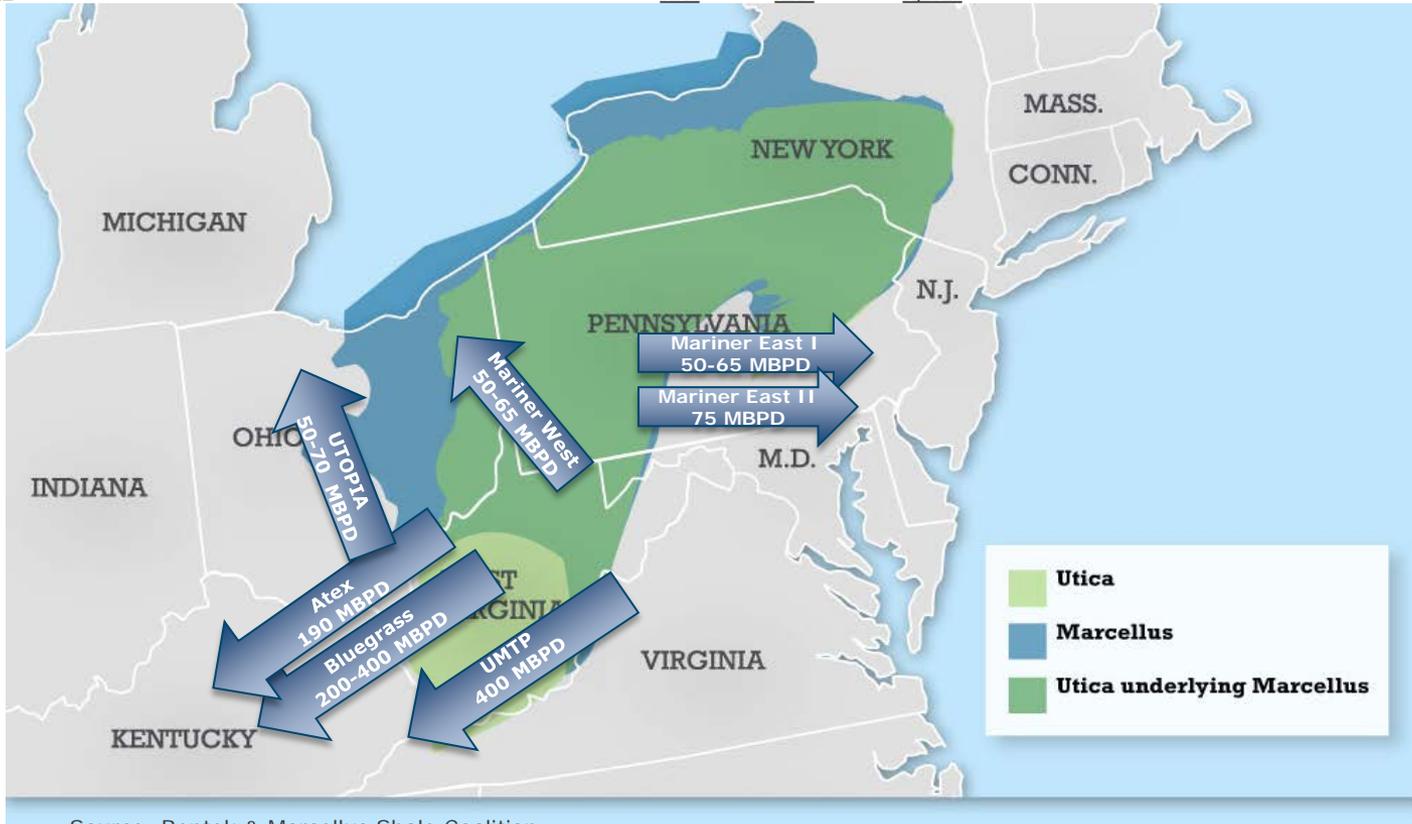
- Growing PADD 1 NGL production:
 - Announced PADD 1 C2+ Fractionation capacity will reach approx. 770 MBPD in 2015/16 according to Bentek
 - By 2023 300 MBPD of production will be C2
 - That remaining production, approx. 400 MBPD will be C3+
 - Around 50% of the C3+ production will be Propane (200 MBPD)
 - Crestwood's estimates indicate Propane production could exceed 300 MBPD
- Pipeline Take-away:
 - Teppco (40 summer vs. 80 winter) volume weighted 60 MBPD
 - Mariner East (1&2) 70 MBPD Propane/Butane mix. Approx. 50 Propane
- Local storage for seasonal demand fluctuations
 - Provides destination for supply during low demand summer months
- Additional NGL export capacity at Marcus Hook
 - Favorable global price differentials



Source: Bentek & Crestwood Internal

Destinations for Northeast NGLs

Pipeline	Owner	In service	Current Capacity	Planned Capacity	Expandable to	Primary product	Secondary Product	Origin	Destination
ATEX Express	Enterprise Products Partners L.P	12/1/2013	65	125	265	Ethane	Propane	Houston, PA	Mont Belvieu, TX
Mariner West	Sunoco	7/21/2013	50	50	65	Ethane		Houston, PA	Sarnia, Ontario
Mariner East 1	Sunoco	9/1/2014	-	70	70	Ethane	Propane	Houston, PA	Marcus Hook, PA
Mariner East 2	Sunoco	4/1/2016	-	75		Propane	Butane	Scio, OH	Marcus Hook, PA
Bluegrass	Williams & Boardwalk Joint Venture	9/1/2017	-	200	400	Y-Grade		West Virginia/ Ohio	Lake Charles, LA
UMTP (Utica Marcellus Texas Pipeline)	Kinder Morgan & MarkWest Utica JV	6/1/2017	-	150	400	Y-Grade		Mercer, PA	Mont Belvieu, TX
UTOPIA (Utica to Ontario Pipeline Access)	Kinder Morgan / NOVA Chemicals	6/1/2017	-	50	70	Propane	Ethane	Harrison, OH	Ontario, CA
TOTAL			115	745	1,470				



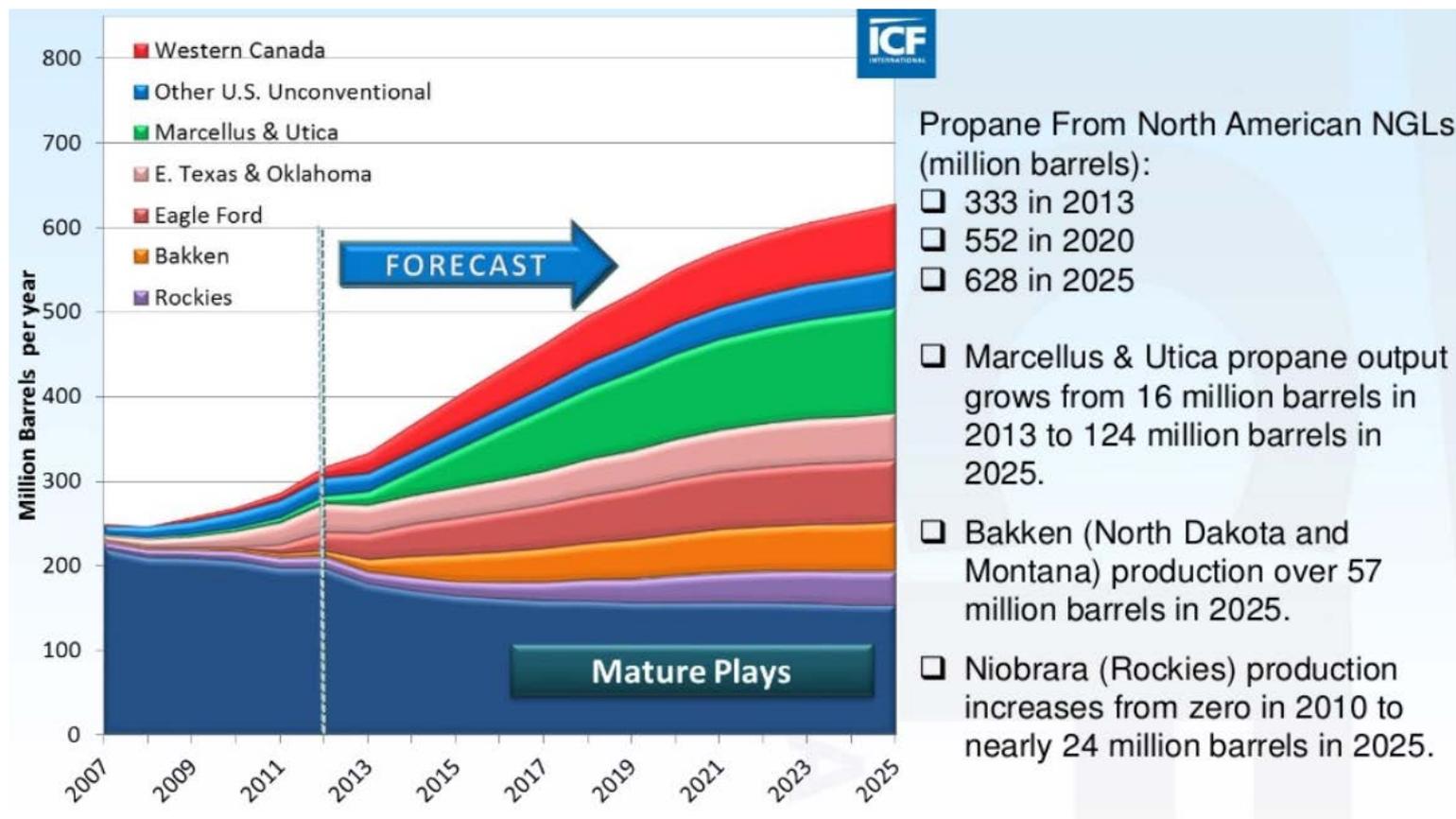
Source: Bentek & Marcellus Shale Coalition

Future LPG Flow



Marcellus – Utica NGL Production Projections

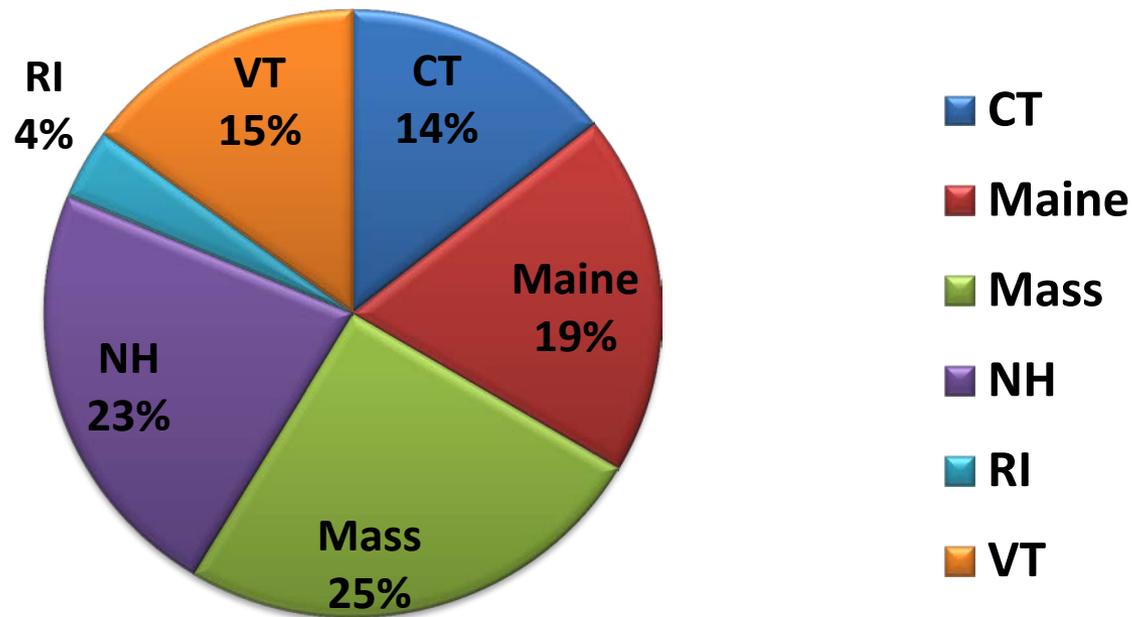
Rapidly Growing NGL Supply that Needs a Home



Source: ICF

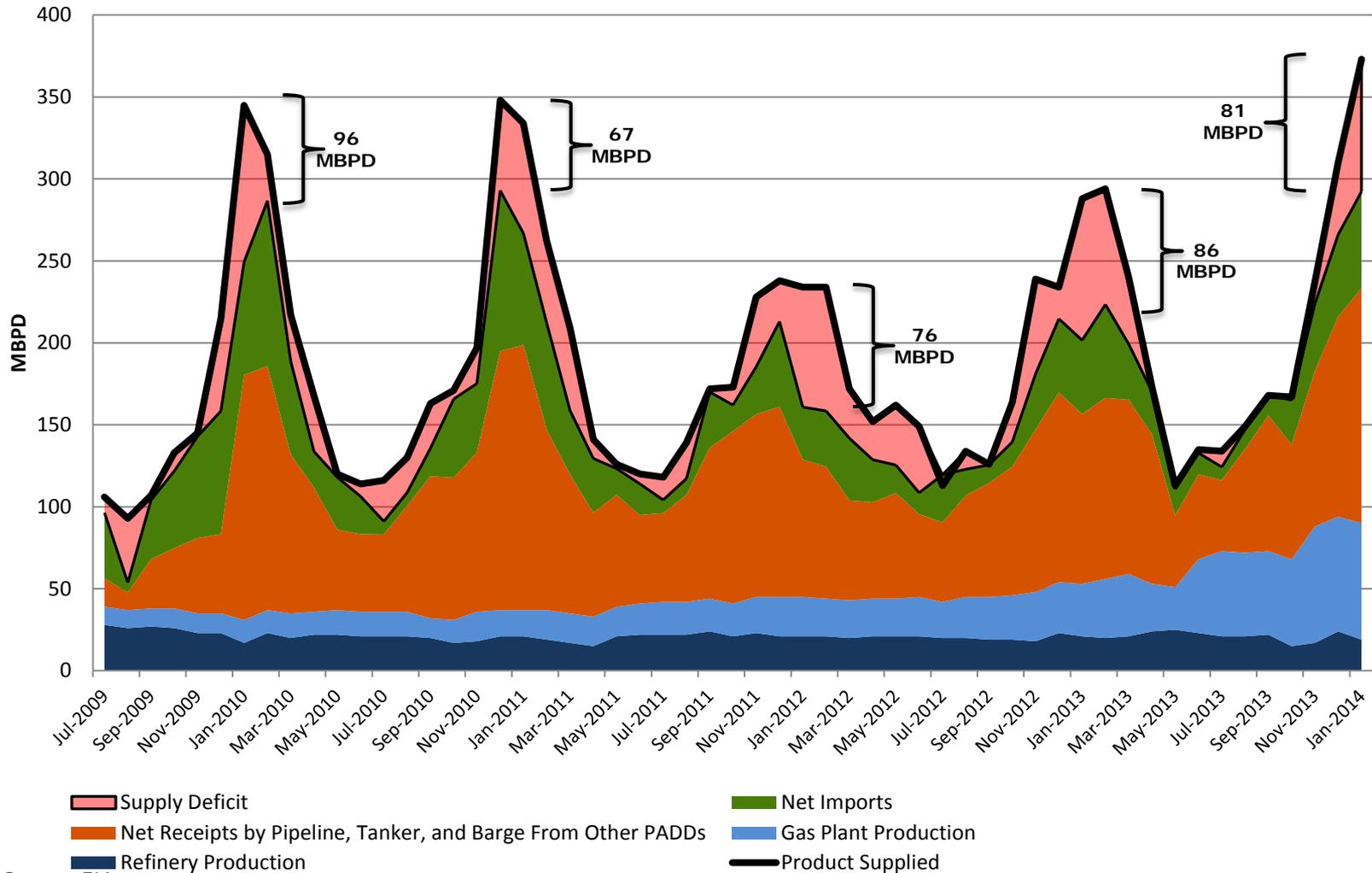
New England Propane Demand

Total demand 750MM gallons +/-



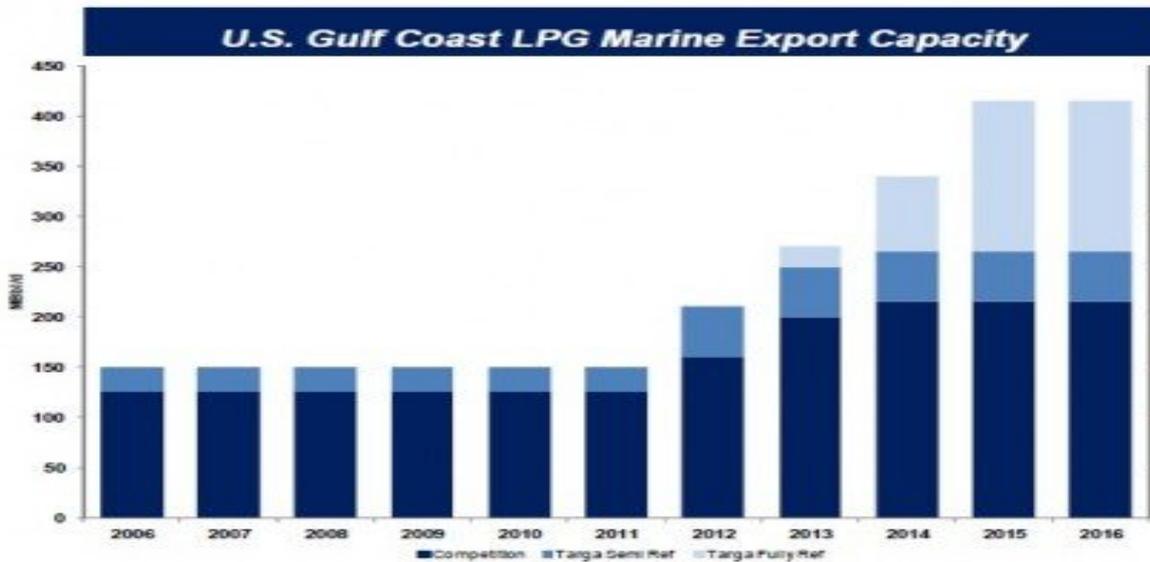
Northeast Propane Supply / Demand

PADD 1 Propane Supply-Demand Balance



Source: EIA

US Gulf Coast LPG Export Capacity

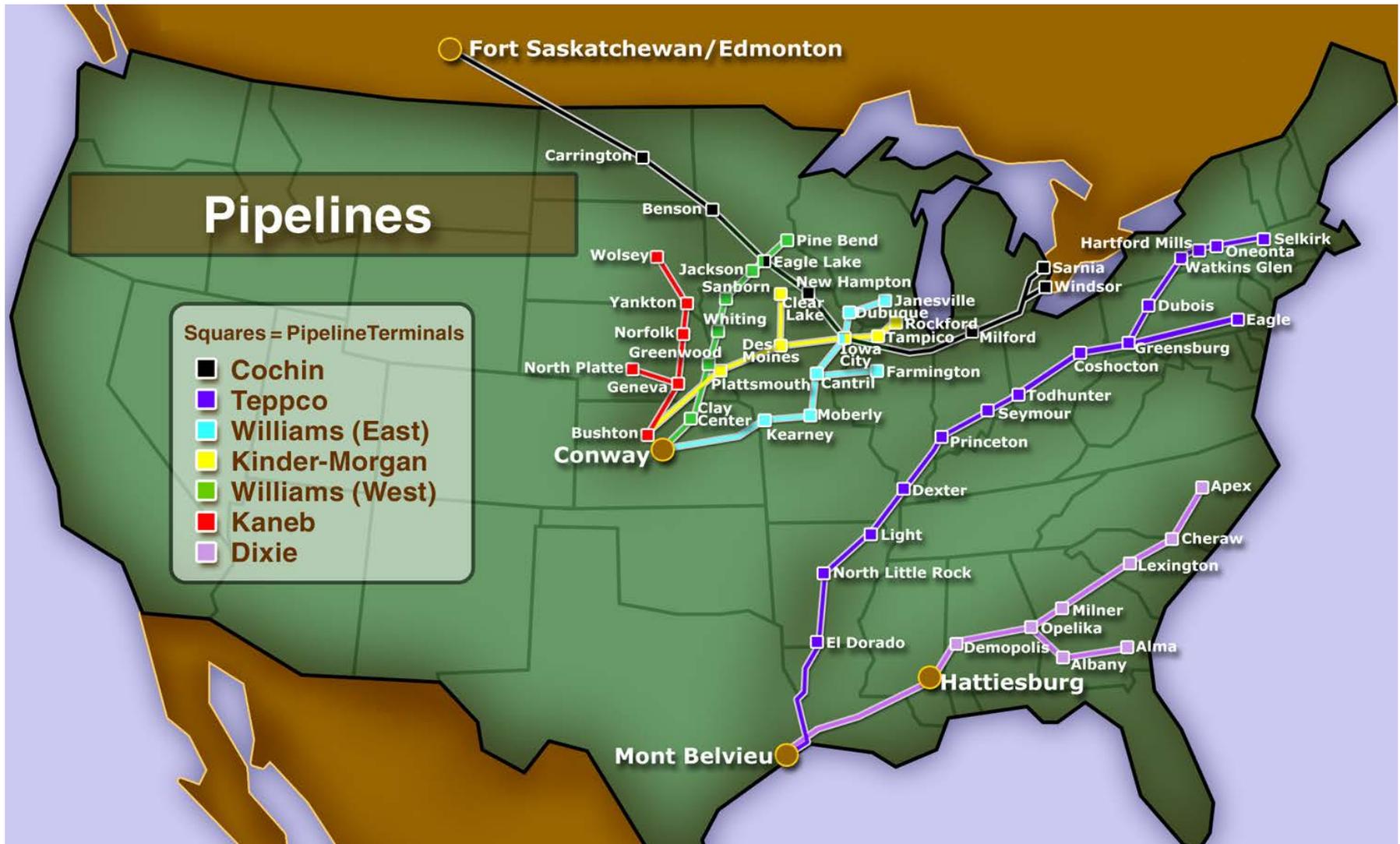


- ◆ Targa export expansion and complementary facility enhancements will increase exports of international grade propane, and grow exports of HD5 propane and butane
- ◆ Targa operating 2,500 BPH semi-ref HD5 propane chiller for exports effective 2Q-2012
- ◆ Capacity a function of dock space, chilling capacity, pipeline from source supply and access to low ethane propane
- ◆ Expanding capacity sufficient to handle forecasted LPG growth

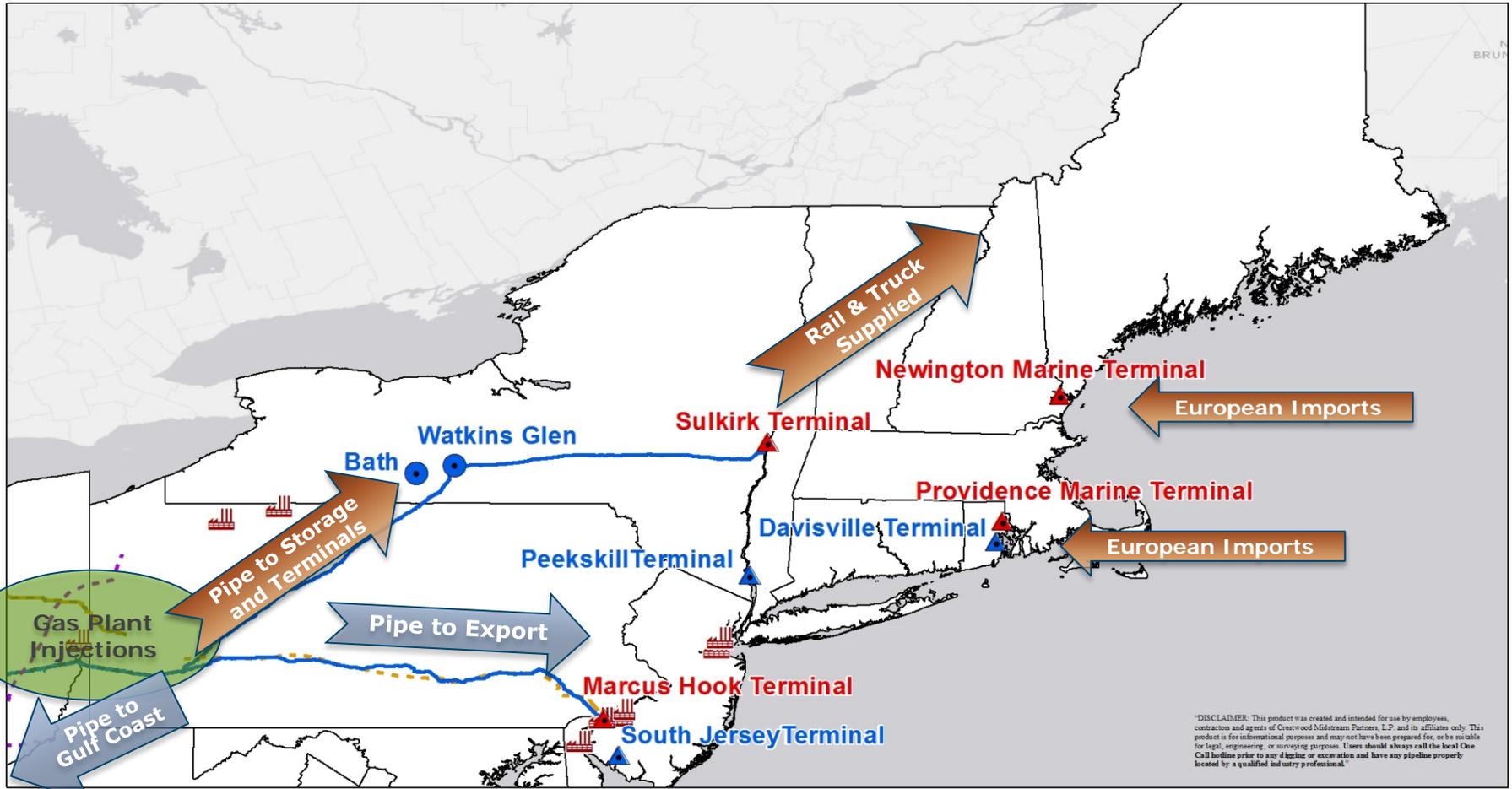
Market Realist^Q

Source: Targa Resources Presentation

Major Propane Pipelines



Finger Lakes Storage is "The Solution"



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Legend

- Enterprise, TEPPCO NORTHERN REGION, Operational
- Enterprise, Atex Ethane Pipeline PA-MO New Build, Under Development
- Sunoco, Operational
- Sunoco, Project Mariner West, Under Development
- Sunoco, Project Mariner East, Under Development
- Williams/ Boardwalk, Bluegrass, Under Development
- Crestwood Storage
- ▲ Crestwood Terminal
- ▲ Terminal
- Refineries



**Northeastern
Terminals**

Crestwood
User: Lcaraway Date: 1/10/2014



Connections for America's Energy™

Thank You

Crestwood Midstream Partners LP

Crestwood Equity Partners LP