NAVIGATOR GAS





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A global shift to gas

- Natural Gas share of energy mix has increased from 16% to 21% over the past 40 years- and continues to grow.
- Oils share has declined, along with coal.
- Global buildout of LNG plants is expected to accelerate the shift to Gas.
- Environmental policy is a strong force behind the growth.
- LPG is really a substitute for oil and natural gas and is participating in the growth.





What is LPG?

Liquid Petroleum Gas consists of three main components:

- Propane (-46°C)
- Butane (-5°C)
- Ethane (-88°C)

What are the sources of LPG?

- Oil and Gas production
- Shale Gas (Fracking)
- Oil refining
- LNG Production, 6-8% LPG.

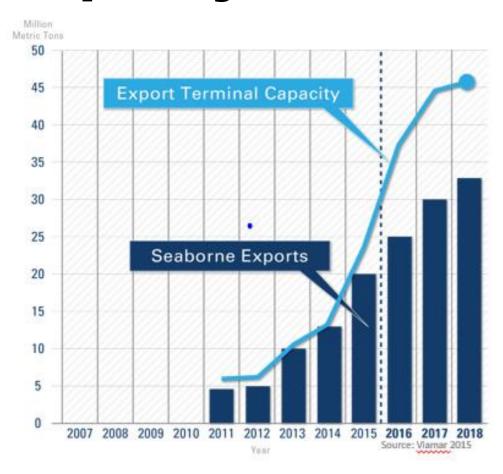
Where is LPG produced?

- LPG is a global product
- Until 2011, the U.S was a net importer of LPG
- Today the U.S is the largest exporter, principally Propane
- Middle East, Russia and Australia are expected to continue as being LPG exporters.





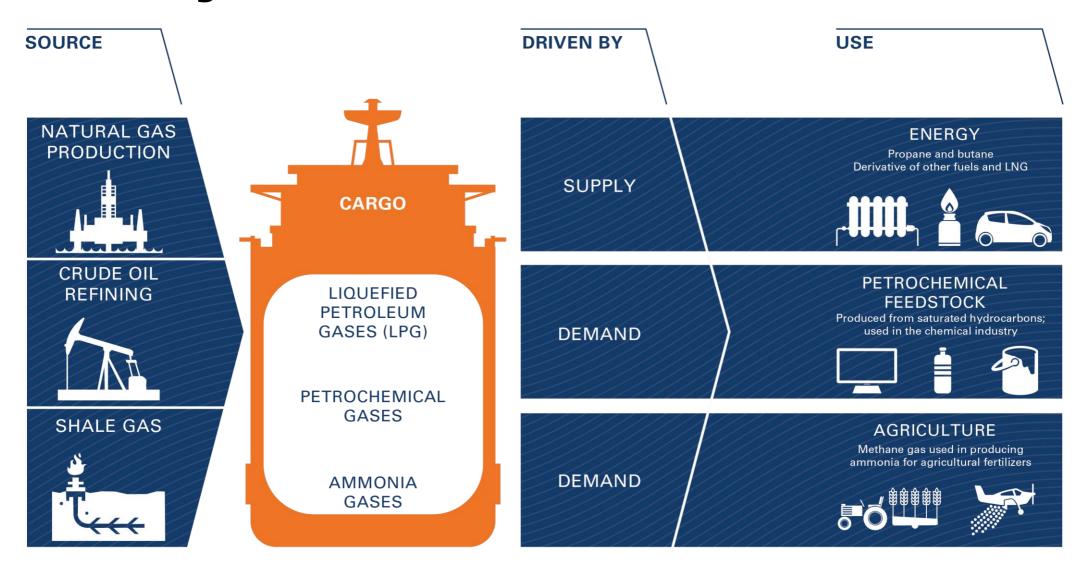
Big growth in U.S terminal export capacity







Industry fundamentals



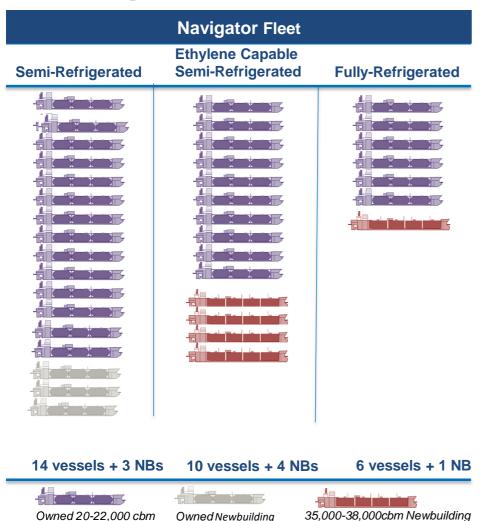


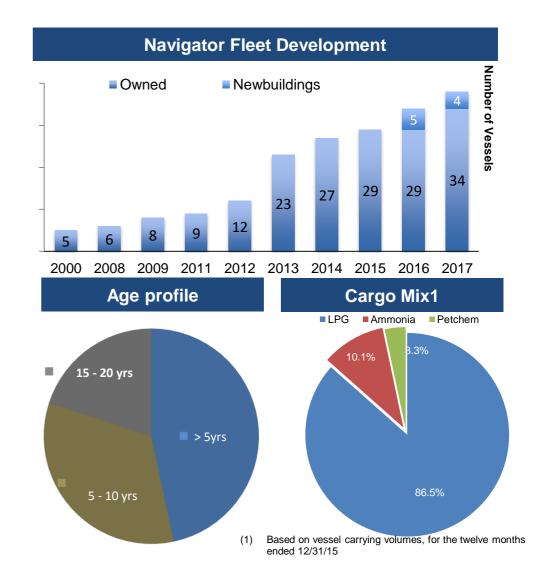
Vessel specification

		Fully Refrigerated	Semi Refrigerated	Pressurised Cylindrical Bottle Steel thickness = 32mm Max pressure = 18 bar Typical size = 500 - 11,500 cbm (3,000-7,000 barrels)		
		Prismatic tanks Steel thickness = 10mm Max pressure = 0.2 bar Typical size = 15,000 - 80,000+ cbm (95,000-500,000 barrels)	Cylindrical Bi Lobe Steel thickness = 20mm Max pressure = 5.9 bar Typical size = 5,000 - 25,000 cbm (30,000-150,000 barrels)			
Load Cargo type	Cooled	\	✓	_		
	Pressurized	_	✓	✓		
Cargo Capability (Boiling Temp)	Butane (23°F/-5°C)	~	✓	✓ Ambient		
	Ammonia (-27°F/-32°C)	✓	✓			
	Propane (-52°F/-46°C)	✓	✓	✓ Ambient		
	Ethane (-128°F/-88°C)	_	✓	_		
	Ethylene (-155°F/-103°C)	_	✓	_		



Navigator fleet





Global reach AMERICAS (NORTH AMERICA)

1.0m Mt 1.0m Mt MIDDLE EAST / AFRICA 1.1m Mt (LATIN AMERICA)

1.4m Mt Total volume transported 6.2m Mt in 2015 Port calls made in 2015 1,295 Nautical miles sailed in 2015 1,150,000



Strategic growth expected for transport of petrochemical gases

What are Petrochemical Gases?

- Butadiene
- Propylene
- Ethylene

Main shift in trading taking place from the U.S to Europe and the Far East using Natural Gas Liquids as a feedstock replacing Naphtha

 U.S is undergoing a massive expansion of Ethylene and Propylene production capacity



U.S Ethylene – a compelling trade!





- Targa has the only Ethylene exporting terminal in the U.S.
- Navigator has a 12 month COA to move Ethylene to Asia.
- The economics:
 - -Ethylene is bought in the U.S for \$350/400 p/ton.
 - -Terminal fees cost \$100 p/ton.
 - -Transport (Navigator) \$300 p/ton
 - -Total costs \$750/800 p/ton
 - -Ethylene sells for \$1,000-1,100 p/ton in Asia.
 - -Trading margin \$250-300 p/ton
- MORE ETHYLENE TERMINALS NEEDED!

Ethylene revolution

- 6 new ethylene crackers under construction to start 2017-20
- +4 crackers under consideration
- U.S Ethylene Capacity to grow +51%

US Ethylene Capacity 2013-18

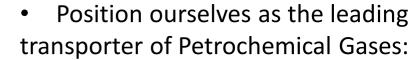
US Ethylene expansions 2013-18											
Company/plant	Exp. Tons/yr	Startup	Comment	Status	Downstream	2013	2014	2015	2016	2017	2018
Dow Chemical, Lake Charles	390	2012	Restart	Operating		390					
INEOS/Chocolate Bayou	210	2013	Debottleneck	Operating			210				
Williams Geismar, Louisiana	270	Oct 2014	Expansion	Operating			45	225			
Westlake Chemicals, Calvert City	90	2014	Expansion	Operating			45	45			
Chevron Phillips, Sweeny Texas	90	2014	Expansion	Operating			45	45			
LyondellBasell, Laporte	363	3Q 2014	Expansion	Operating			36	327			
Westlake Chemicals, Lake Charles	105	2015	Expansion	Operating				53	53		
LyondellBasell, Channelview	115	2015	Expansion	Operating				86	29		
LyondellBasell, Corpus Christie	365	2015	Expansion	Operating				91	274		
Aither Chemicals, West VA	270	NA	New								
ExxonMobil Chemical Co., Baytown Tx	1500	2H 2017	New	Under constr	PE					300	1 200
Chevron Phillips, Cedar Bayou Tx	1500	2H 2017	New	Under constr	HDPE LLPE					300	1 200
Formosa Plastic, Point Comfort Tx	1590	2018	New	Under constr	LDPE						1000
Occidental Chemical, Ingleside Tx	545	1Q 2017	New	Under constr	EDC VCM					300	245
Dow Chemical Freeport/Tx	1500	1H 2017	New	Under constr	LDPE PE EPO					500	1000
Sasol, Lake Charles La	1500	2018	New	Under constr	LDPE EO MEG						750
Axiall, Louisiana	1000	4Q 2018	New	Permitting	MEG						100
Shell Chemicals, Monaca Pennsylvania	1 200	2019	New	FEED							
Odebrecht/Braschem, Wood county West V/	1000	Post 2020	New	Feasability							
Total, USGcoast	1000	2019	New	Permitting							
PTT Global/Marubeni, Belmont Ohio	1000	2021									
Sum	15 603										
Reserve 100 % Utillis	sation 1963										
Total	17 566		KTY			390	381	872	355	1400	5 495





Navigator future

- Expand with the global growth of LPG supply:
 - -More U.S exports
 - -More M.E. exports



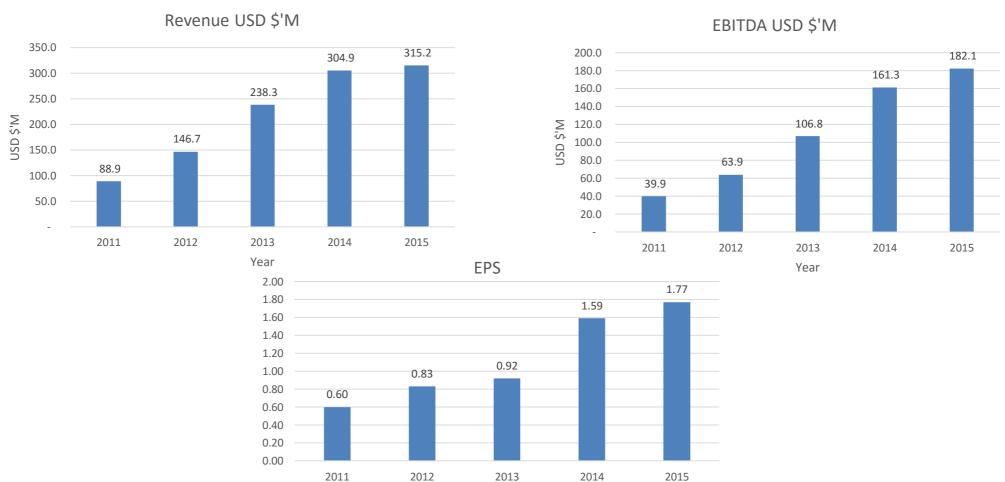
- -Dominant position
- -Experience of U.S exports
- -Experience M.E. exports





Financial strength

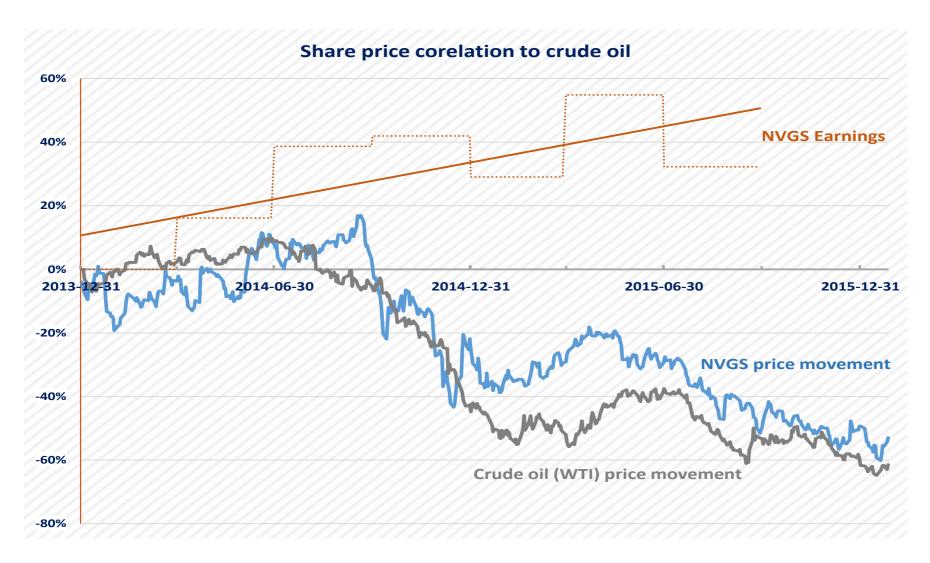




Year



NVGS share movement



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