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.

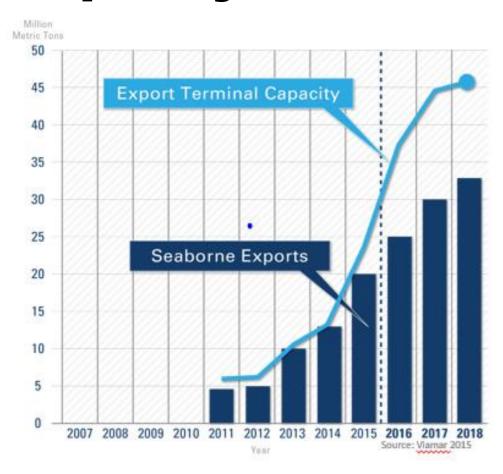
Where is LPG produced?

- 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.





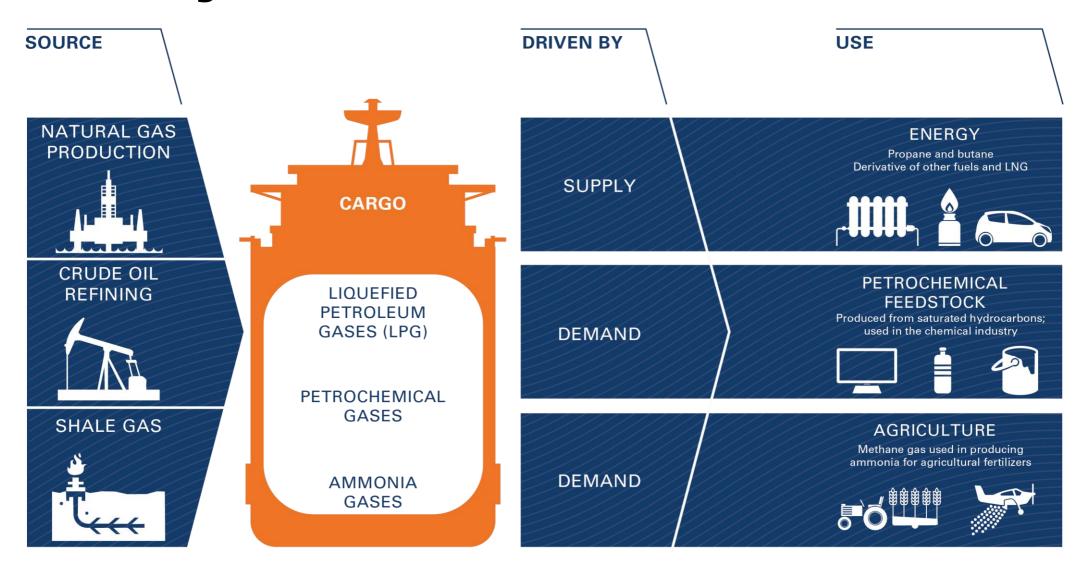
Big growth in U.S terminal export capacity







Industry fundamentals



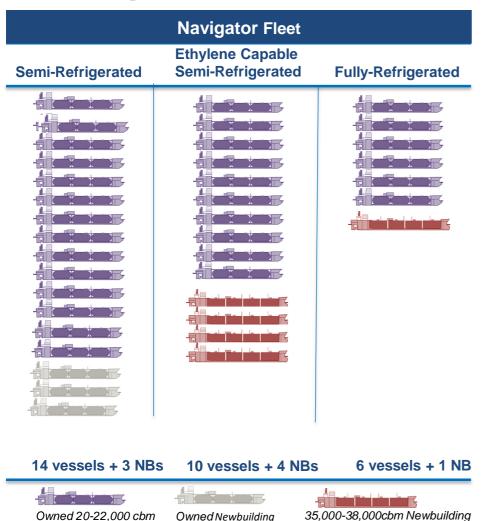


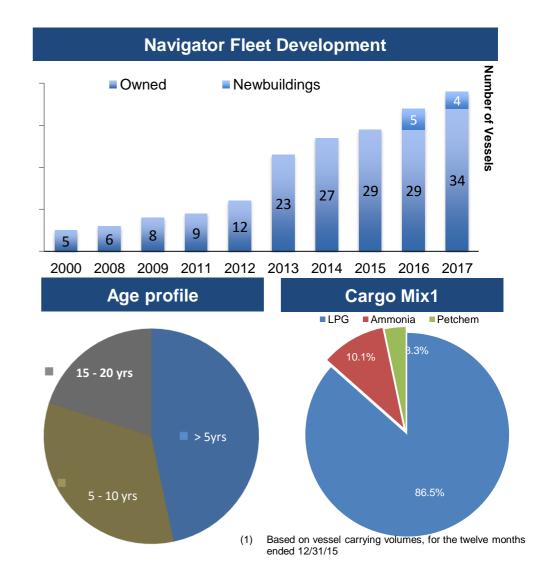
Vessel specification

| | | 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

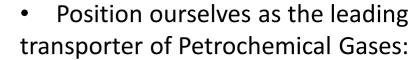
| US Ethylene expansions 2013-18 | | | | | | | | | | | |
|---|--------------|-----------|--------------|--------------|-------------|------|------|------|------|------|-------|
| Company/plant | Exp. Tons/yr | Startup | Comment | Status | Downstream | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Dow Chemical, 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 VA | 1000 | Post 2020 | New | Feasability | | | | | | | |
| Total, USGcoast | 1000 | 2019 | New | Permitting | | | | | | | |
| PTT Global/Marubeni, Belmont Ohio | 1000 | 2021 | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Sum | 15 603 | | | | | | | | | | |
| Reserve 100 % Utillisa | ion 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



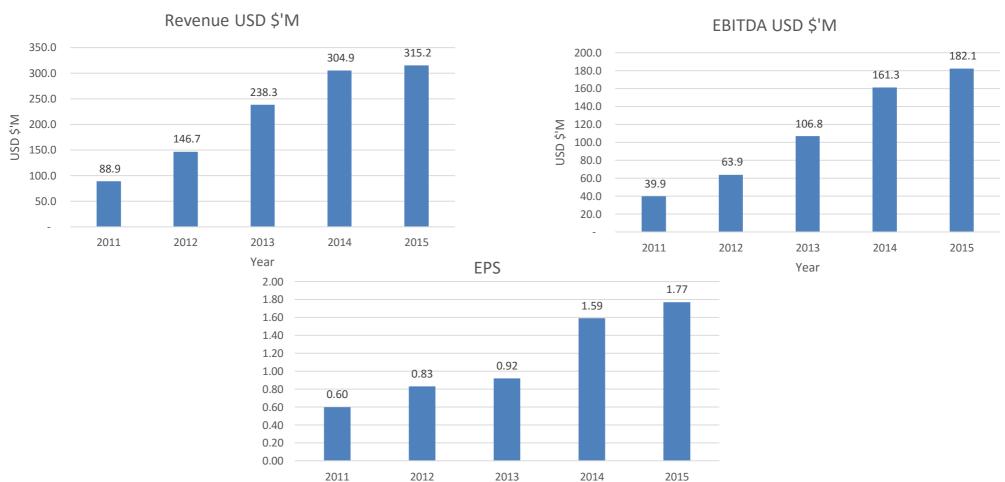
- -Dominant position
- -Experience of U.S exports
- -Experience M.E. exports





Financial strength

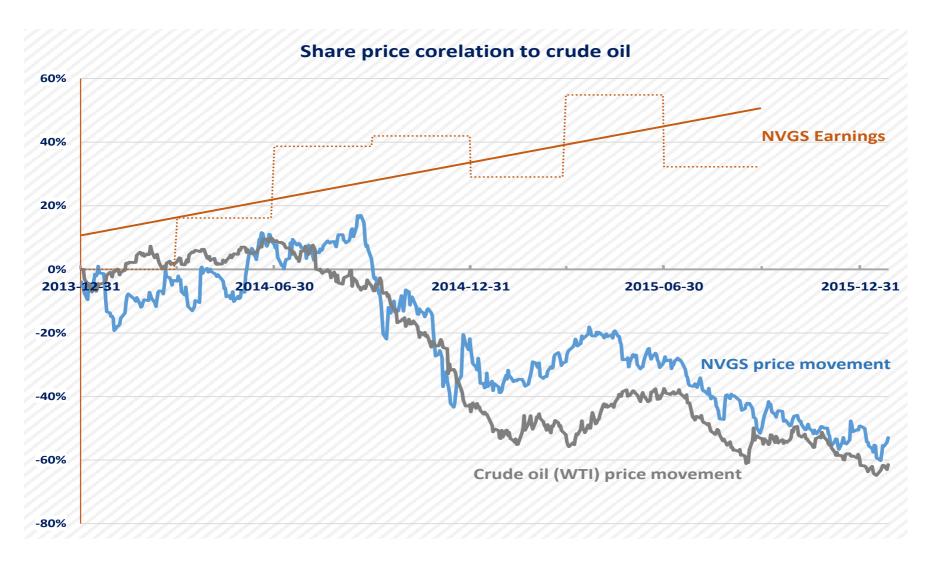




Year



NVGS share movement



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