

CONNECTING HIGH QUALITY ANALYTICS WITH COMMERCIAL **DECISION MAKING**



MICHAEL PANAS

Michael is a specialist in the field of natural gas liquids particularly LPG, ethane and ammonia. He has a vast experience of global commodity, trading and shipping markets focussing on commercial aspects, supply/ demand issues, shipping analysis and freight forecasting.



PETER MANNING

Peter has over fifty years of experience in market analysis and developing corporate strategies within the petrochemical and energy sectors. He has extensive understanding of the interface between petrochemicals and their feedstocks.



DR EMMA LAMB

Emma has a PhD in Chemistry focussing on bioplastics, and over a decade of experience in commodities. Her expansive knowledge of the chemical industry and its influence on seaborne trading, allows her to advise key players within the natural gas liquids market on effective strategies.





INTERACTIVE PORTAL

NGLSTRATEGY CLIENT PORTAL

KEY TOPICS

- Supply/demand
- Seaborne Trade
- Petchem Feedstocks
- Shipping/Freight
- Pricing

Giving you all the LPG data you need at your fingertips

REPORTS AND SERVICES



LPG SHORT TERM

NGLS Weekly Report

Supply/Demand Overview with 3-month Outlook MONTHLY SERVICE

Global Propane & Butane Market Overview & Outlook QUARTERLY SERVICE

US NGL Market 12-month Outlook QUARTERLY SERVICE

Access to NGLStrategy Client Portal



AMMONIA

Ammonia Seaborne Trade Outlook to 2040 ANNUAL SERVICE

Ammonia Seaborne Trade Outlook to 2040 QUARTERLY SERVICE



LPG LONG TERM

Global LPG Outlook to 2035 QUARTERLY SERVICE

US NGL Market Outlook to 2027 QUARTERLY SERVICE

Access to NGLStrategy Client Portal



ETHANE & ETHYLENE

Global Seaborne Ethylene Trade to 2035 ANNUAL SERVICE

Global Seaborne Ethane Trade to 2035 ANNUAL SERVICE



CLIENT SERVICES

- Consulting
- Training / Workshops
- Commercial Advisory
- Market Analytics
- **Strategy Presentations**



MONTHLY ANALYSIS

Global Propane & Butane Market Overview & Outlook

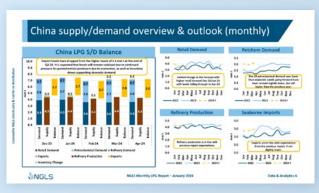
Overview of current market developments and discover on a monthly basis what the next 2-3 months hold for propane and butane markets and understand the changes observed in the market to help shape future decisions.

Ĥ

KEY TOPICS IN THE REPORT

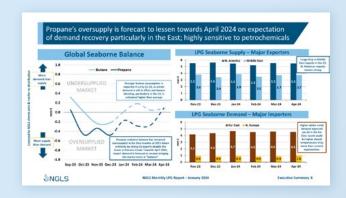
- Last month Market Review
- Propane & Butane Trade Patterns and Monthly Forecast
- Global Propane & Butane Supply/Demand Topics, Overview and Outlook
- Propane & Butane Price Trends and Forecasts
- Petrochemical Feedstock Analysis and Outlook
- Shipping Analysis & Market Forecast Including Freight Rate Outlook
- Market Insights and Analytics





1

- Access to our consultants for questions
- m Detailed data tables in excel file
- A report in executive style
- This service can be part of our bundled options which provide cost optimization

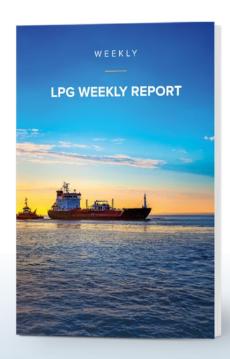


WEEKLY ANALYSIS

LPG Weekly Report

Examination of key indices in the short-term market for LPG, providing a clear view of the current market and changes in the short-term forecast.







KEY TOPICS IN THE REPORT

- Weekly market summary/sentiment
- Propane and butane key market influences e.g. breakeven values
- Overview and evaluation of key market metrics
- LPG shipping, pricing and petrochemical updates

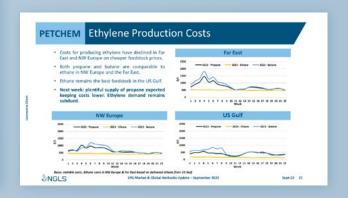
+

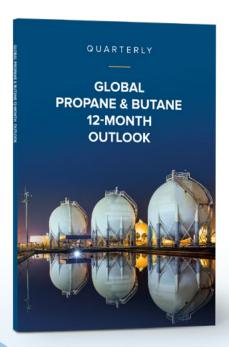
INCLUDES



A report in executive style

This service can be part of our bundled options which provide cost optimization





QUARTERLY ANALYSIS

Global Propane and Butane 12-month Supply-Demand Outlook

Find out on a quarterly basis what the next 9 to 12 months hold for the propane and butane markets and understand the changes observed in the market to help shape future decisions.



NGLS

KEY TOPICS IN THE REPORT

- Last Quarter Market Review
- Propane & Butane Trade Patterns and **Quarterly Forecast**
- Global Propane & Butane Supply/Demand Topics, Overview and Outlook Propane & Butane Price Trends and Forecasts
- Petrochemical Feedstock Analysis and Outlook for Short-term Consumption per Region Shipping Analysis & Market Forecast Including Freight Rate Outlook
- Key Current Topics Analysis and Perspective

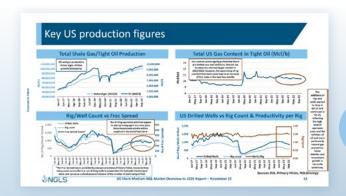


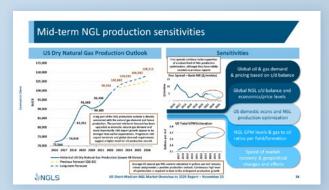
- Access to our consultants for questions
- m Detailed data tables in excel file
- Two reports of over 60 slides combined in executive style
- This service can be part of our bundled options which provide cost optimization

QUARTERLY ANALYSIS

US NGL Market Outlook

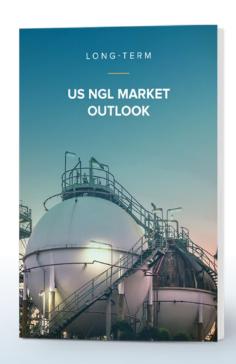
NGLStrategy's US specific short-medium term report provides an up to date forecast for LPG on the largest exporter of volume globally. The quarterly update is essential for market participants to understand the US market relative to the global LPG landscape on both the short and medium term.





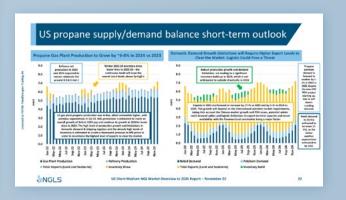
INCLUDES

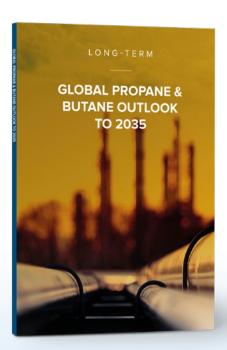
- Access to our consultants for questions
- m Detailed data tables in excel file
- A report in executive style
- Provides monthly data for next 9-12 Oilli months and annual data to 2027
- This service can be part of our bundled options which provide cost optimization



KEY TOPICS IN THE REPORT

- Oil & Gas Fundamentals
- US NGL Production Outlook & Analysis by PADD Including Key Sensitivities
- Propane & Butane Price Trends and Forecasts
- Domestic Demand Breakdown Including Both Retail & Petrochemical Supply/ Demand on a Monthly Basis for the Short-Term and Annually to 2027
- Availability for Exports & Terminal Utilization
- Overview of Key Topics that can Affect Supply/Demand Balance

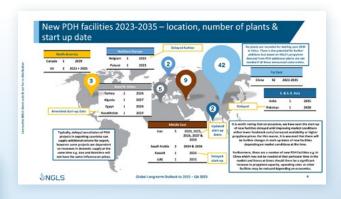




QUARTERLY ANALYSIS

Global Propane & Butane Outlook to 2035

NGLStrategy's long-term quarterly report provides a thorough data breakdown of propane & butane's supply and demand by country and by major sector to 2035.



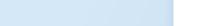
KEY TOPICS IN THE REPORT

- Breakdown by Region and by Country of Propane/Butane Supply and Demand by Individual Sectors
- Global Propane & Butane Supply/ Demand Topics, Overview and Outlook
- Propane & Butane Price Trends and Forecasts
- Petrochemical Feedstock Analysis and Outlook for Consumption per Region
- VLGC Supply/Demand Balance Outlook
- Key Current Topics Analysis & Perspective





INCLUDES



LPG price forecast basis: crude & gas prices

NGLS

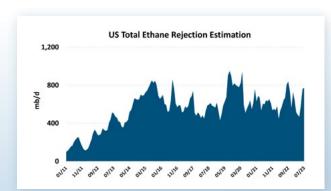
- Access to our consultants for questions
- Option to include either detailed data breakdown for over 70 key countries and regions supply/demand, or global seaborne export & import breakdown by key country, or both
- A report of over 50 slides in executive style
- This service can be part of our bundled options which provide cost optimization

GLOBAL SEABORNE ETHANE TRADE TO 2035

ANNUAL STUDY

Global Seaborne Ethane Trade to 2035

Explore the N. America domestic ethane market and potential new projects internationally to understand how global seaborne trade can be affected and shape future decisions.







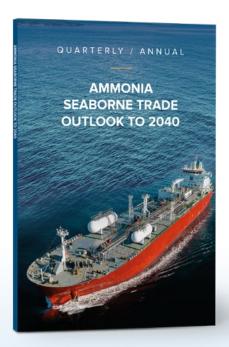
KEY TOPICS IN THE REPORT

- US Ethane Supply and Forecast to 2035 **Including Scenarios**
- Domestic Ethane Consumption and Outlook for Seaborne Availability
- Infrastructure Analysis and Expectations for Future Developments
- Ethane Price Trends and Forecasts
- Analysis & Forecast for Key Potential Importers of US Ethane
- Shipping Analysis & Market Forecast
- Global Delivered Ethane Economics/ Cost Comparison with Regional Competing Feedstock



- Access to our consultants for questions
- m Detailed data tables in excel file
- A report in executive style
- This service can be part of our bundled options which provide cost optimization





QUARTERLY / ANNUAL STUDY

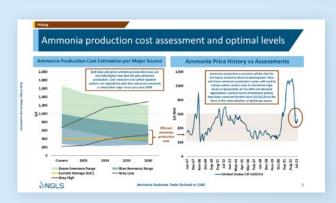
Ammonia Seaborne Trade Outlook to 2040

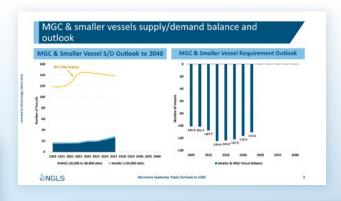
The quarterly or annual report takes a look at new developments in the ammonia landscape to 2040 and what this will mean for seaborne trade.

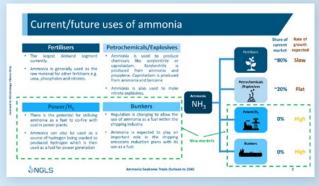


KEY TOPICS IN THE REPORT

- New ammonia uses such as for co-firing with coal, as a hydrogen carrier, and as a bunker fuel
- Supply and demand drivers including where the new developments will be and the evolution of costs
- Seaborne trade movements outlook to 2040
- · What the implications of new developments mean for the shipping market and how each segment of the fleet will grow
- Low, base and high case scenarios for seaborne trade and vessel segments







1

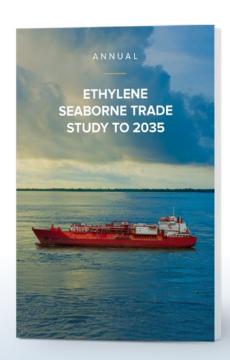
- Access to our consultants for questions
- 🖺 A comprehensive annual report in executive style with the option for quarterly updates of developments
- m Data tables in excel file
- This service can be part of our bundled options for cost optimization

ANNUAL STUDY

Ethylene Seaborne Trade Study to 2035

Find out what future ethylene trade will look like and unravel the possibilities thrown up by new investment in North America and Asia to help shape future decisions.





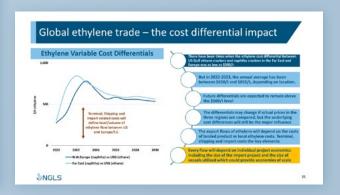


KEY TOPICS IN THE REPORT

- Ethylene Trade Patterns and Forecast to 2035
- Impact of Feedstocks on Ethylene Costs
- Gas Shipping Supply/Demand Analysis and Forecast to 2035
- Infrastructure Analysis & Investment Potential
- Current Market Analysis and Perspective on how the Ethylene Market is Shifting



- Access to our consultants for questions
- Detailed trade grids for ethylene
- A detailed report in executive style
- This service can be part of our bundled options which provide cost optimization









KEY TOPICS IN THE NGLSTRATEGY CLIENT PORTAL

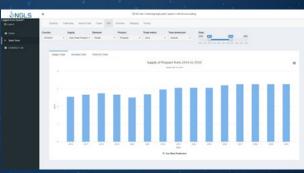
- Client Customized Desktop
- Infrastructure Map including key LPG related infrastructure assets
- Download current and historical NGLS reports and files
- Global Trade historical & forecast data
- Global Supply/Demand historical & forecast data
- Global Petrochemical historical & forecast data
- Global Shipping historical & forecast data
- Global Pricing historical & forecast data

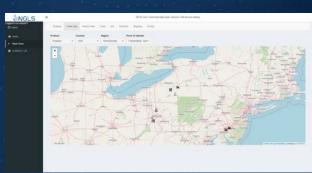
SHORT & LONG TERM ONLINE SERVICES

NGLStrategy Client Portal

Access on-demand data in an interactive format. The online portal provides the figures behind NGLStrategy's regular reports, and allows a visual representation of the raw data.







+

INCLUDES



Options to download NGLS current and historical reports

Availability to download all data in excel or pdf format

This service can be part of our bundled options which provide cost optimization NGLSTRATEGY HELPS
CLIENTS DEVELOP
BUSINESS STRATEGIES
AND COMMERCIAL
ALIGNMENTS FOR
TODAY'S AND
TOMORROW'S MARKETS

