

LPG Tankers Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

LPG Tankers Market Summary

Introduction

LPG (Liquefied Petroleum Gas) tankers are specialized vessels designed for the safe transportation of liquefied petroleum gases, including propane, butane, and their mixtures, across global maritime routes. These vessels feature sophisticated cargo containment systems and are classified into Very Large Gas Carriers (VLGC), Large Gas Carriers (LGC), Medium Gas Carriers (MGC), and Small Gas Carriers (SGC) based on their capacity. The market serves various transportation needs including ethylene with extra refrigeration, full refrigeration systems, semi-refrigeration, and full pressurized cargo handling. The growing global demand for LPG as a cleaner alternative to traditional fuels, expanding petrochemical industries, and increasing adoption of LPG for residential and commercial applications drive market growth. Additionally, the shift toward cleaner marine fuels and the development of LPG as a marine fuel further enhance market prospects.

Market Size and Growth Forecast

The global LPG tankers market is projected to reach between USD 200 million and USD 250 million in 2025, with a compound annual growth rate (CAGR) of 4% to 8% through 2030, reflecting the steady demand for specialized gas transportation vessels.

Regional Analysis

North America: The United States leads with significant LPG production and export capabilities, while Canada focuses on Arctic-capable vessels for northern operations. Europe: Norway and the United Kingdom dominate the market, driven by North Sea gas production and established maritime expertise. Asia Pacific: South Korea and Japan lead in shipbuilding and vessel ownership, while China experiences growing demand for LPG imports requiring specialized transportation. Rest of the World: The Middle East, particularly Qatar and Saudi Arabia, invests in LPG carrier fleets to support expanding gas exports, while Brazil enhances gas transportation capabilities.

Application Analysis

Ethylene (Extra Refrigeration): Expected growth of 5.0-9.0%, driven by petrochemical industry expansion and demand for high-purity ethylene transportation. Trends focus on advanced refrigeration systems and cargo handling efficiency. Full Refrigeration: Projected growth of 4.5-8.5%, linked to long-distance transportation needs and cargo quality preservation. Developments emphasize energy-efficient cooling systems. Semi Refrigeration: Anticipated growth of 3.5-7.5%, tied to medium-distance routes and cost-effective transportation solutions. Advances prioritize operational flexibility and fuel efficiency. Full Pressurized: Expected growth of 3.0-6.0%, valued for short-distance transportation and simplified cargo handling. Trends focus on vessel optimization and safety enhancements.

Type Analysis

Very Large Gas Carriers: Expected growth of 5.5-9.0%, valued for long-haul transportation and economies of scale. Trends focus on fuel efficiency and environmental compliance. Large Gas Carriers: Projected growth of 4.5-8.0%, key for major trade routes and flexible cargo operations. Advances highlight dual-fuel engines and emissions reduction. Medium Gas Carriers: Anticipated growth of 3.5-7.0%, essential for regional transportation and port accessibility. Developments prioritize operational efficiency and cargo flexibility. Small Gas Carriers: Expected growth of 3.0-6.0%, important for coastal and short-sea shipping. Trends emphasize cost-effective operations and specialized cargo handling.

Key Market Players

Leading firms include Hyundai Heavy Industries, offering advanced LPG carrier construction with innovative hull designs; Mitsubishi Heavy Industries, specializing in high-efficiency propulsion systems; Kawasaki Heavy Industries, providing sophisticated

cargo containment technologies; StealthGas, operating one of the world's largest LPG carrier fleets; Dorian LPG, focusing on modern VLGC operations; BW Group, enhancing gas shipping capabilities; PT Pertamina (Persero), expanding Indonesian gas transportation; The Great Eastern Shipping, serving Asian LPG trade routes; EXMAR, innovating in floating storage and regasification units; Namura Shipbuilding, constructing specialized gas carriers; DAE SUN Shipbuilding and Engineering, developing cost-effective vessel solutions; STX Corp., advancing shipbuilding technologies; Kuwait Oil Tanker, serving Middle Eastern gas exports; and Teekay Corp., providing integrated gas shipping services.

Porter's Five Forces Analysis

Threat of New Entrants: Low, due to extremely high capital requirements for shipbuilding and specialized technical expertise required for gas carrier construction. **Threat of Substitutes:** Low, as pipeline transportation is limited by geography and LPG tankers remain essential for international trade. **Bargaining Power of Buyers:** Moderate, with major oil and gas companies having significant negotiating power but limited vessel availability during peak demand periods. **Bargaining Power of Suppliers:** Moderate, due to concentrated shipbuilding industry and specialized component suppliers for gas containment systems. **Competitive Rivalry:** Moderate, with established players competing on vessel efficiency, safety records, and global service capabilities.

Market Opportunities and Challenges

Opportunities: The increasing global demand for LPG as a cleaner fuel alternative creates substantial transportation needs. Expanding petrochemical industries in Asia require reliable LPG supply chains and specialized carriers. The development of LPG as a marine fuel presents new market opportunities for dual-purpose vessels. Growing LPG export capabilities from the United States and other producing regions drive demand for modern, efficient carriers. Environmental regulations favoring cleaner fuels enhance LPG's market position and transportation requirements.

Challenges: High capital costs for new vessel construction limit fleet expansion and require significant financial commitments. Stringent environmental regulations require investment in emission control systems and fuel-efficient technologies. Volatility in LPG prices affects charter rates and vessel utilization. Competition from pipeline infrastructure development in some regions threatens short-haul shipping demand. The need for specialized port facilities and trained personnel creates operational challenges in emerging markets.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Lpg Tankers Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST LPG TANKERS MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Lpg Tankers Market Size
- 8.2 Lpg Tankers Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Lpg Tankers Market Size by Type
- 8.5 Key Countries Analysis
 - 8.5.1 United States
 - 8.5.2 Canada
 - 8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST LPG TANKERS MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Lpg Tankers Market Size
- 9.2 Lpg Tankers Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Lpg Tankers Market Size by Type
- 9.5 Key Countries Analysis
 - 9.5.1 Brazil
 - 9.5.2 Argentina
 - 9.5.3 Chile
 - 9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST LPG TANKERS MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Lpg Tankers Market Size
- 10.2 Lpg Tankers Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Lpg Tankers Market Size by Type
- 10.5 Key Countries Analysis
 - 10.5.1 China
 - 10.5.2 India
 - 10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST LPG TANKERS MARKET IN EUROPE (2020-2030)

- 11.1 Lpg Tankers Market Size
- 11.2 Lpg Tankers Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Lpg Tankers Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST LPG TANKERS MARKET IN MEA (2020-2030)

- 12.1 Lpg Tankers Market Size
- 12.2 Lpg Tankers Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Lpg Tankers Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL LPG TANKERS MARKET (2020-2025)

- 13.1 Lpg Tankers Market Size
- 13.2 Lpg Tankers Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Lpg Tankers Market Size by Type

CHAPTER 14 GLOBAL LPG TANKERS MARKET FORECAST (2025-2030)

- 14.1 Lpg Tankers Market Size Forecast
- 14.2 Lpg Tankers Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Lpg Tankers Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Hyundai Heavy Industries
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and LPG Tankers Information
 - 15.1.3 SWOT Analysis of Hyundai Heavy Industries
 - 15.1.4 Hyundai Heavy Industries LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Mitsubishi Heavy Industries
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and LPG Tankers Information
 - 15.2.3 SWOT Analysis of Mitsubishi Heavy Industries
 - 15.2.4 Mitsubishi Heavy Industries LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Kawasaki Heavy Industries
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and LPG Tankers Information
 - 15.3.3 SWOT Analysis of Kawasaki Heavy Industries
 - 15.3.4 Kawasaki Heavy Industries LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 StealthGas
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and LPG Tankers Information
 - 15.4.3 SWOT Analysis of StealthGas
 - 15.4.4 StealthGas LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
- 15.5 Dorian LPG

- 15.5.1 Company Profile
 - 15.5.2 Main Business and LPG Tankers Information
 - 15.5.3 SWOT Analysis of Dorian LPG
 - 15.5.4 Dorian LPG LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
 - 15.6 BW Group
 - 15.6.1 Company Profile
 - 15.6.2 Main Business and LPG Tankers Information
 - 15.6.3 SWOT Analysis of BW Group
 - 15.6.4 BW Group LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
 - 15.7 PT Pertamina (Persero)
 - 15.7.1 Company Profile
 - 15.7.2 Main Business and LPG Tankers Information
 - 15.7.3 SWOT Analysis of PT Pertamina (Persero)
 - 15.7.4 PT Pertamina (Persero) LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
 - 15.8 The Great Eastern Shipping
 - 15.8.1 Company Profile
 - 15.8.2 Main Business and LPG Tankers Information
 - 15.8.3 SWOT Analysis of The Great Eastern Shipping
 - 15.8.4 The Great Eastern Shipping LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
 - 15.9 EXMAR
 - 15.9.1 Company Profile
 - 15.9.2 Main Business and LPG Tankers Information
 - 15.9.3 SWOT Analysis of EXMAR
 - 15.9.4 EXMAR LPG Tankers Revenue, Gross Margin and Market Share (2020-2025)
- Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms
Table Research Scope of Lpg Tankers Report
Table Data Sources of Lpg Tankers Report
Table Major Assumptions of Lpg Tankers Report
Figure Market Size Estimated Method
Figure Major Forecasting Factors
Figure Lpg Tankers Picture
Table Lpg Tankers Classification
Table Lpg Tankers Applications
Table Drivers of Lpg Tankers Market
Table Restraints of Lpg Tankers Market
Table Opportunities of Lpg Tankers Market
Table Threats of Lpg Tankers Market
Table Covid-19 Impact For Lpg Tankers Market
Table Raw Materials Suppliers
Table Different Production Methods of Lpg Tankers
Table Cost Structure Analysis of Lpg Tankers
Table Key End Users
Table Latest News of Lpg Tankers Market
Table Merger and Acquisition
Table Planned/Future Project of Lpg Tankers Market
Table Policy of Lpg Tankers Market
Table 2020-2030 North America Lpg Tankers Market Size
Figure 2020-2030 North America Lpg Tankers Market Size and CAGR
Table 2020-2030 North America Lpg Tankers Market Size by Application
Table 2020-2025 North America Lpg Tankers Key Players Revenue
Table 2020-2025 North America Lpg Tankers Key Players Market Share
Table 2020-2030 North America Lpg Tankers Market Size by Type
Table 2020-2030 United States Lpg Tankers Market Size
Table 2020-2030 Canada Lpg Tankers Market Size
Table 2020-2030 Mexico Lpg Tankers Market Size
Table 2020-2030 South America Lpg Tankers Market Size
Figure 2020-2030 South America Lpg Tankers Market Size and CAGR
Table 2020-2030 South America Lpg Tankers Market Size by Application
Table 2020-2025 South America Lpg Tankers Key Players Revenue

Table 2020-2025 South America Lpg Tankers Key Players Market Share
Table 2020-2030 South America Lpg Tankers Market Size by Type
Table 2020-2030 Brazil Lpg Tankers Market Size
Table 2020-2030 Argentina Lpg Tankers Market Size
Table 2020-2030 Chile Lpg Tankers Market Size
Table 2020-2030 Peru Lpg Tankers Market Size
Table 2020-2030 Asia & Pacific Lpg Tankers Market Size
Figure 2020-2030 Asia & Pacific Lpg Tankers Market Size and CAGR
Table 2020-2030 Asia & Pacific Lpg Tankers Market Size by Application
Table 2020-2025 Asia & Pacific Lpg Tankers Key Players Revenue
Table 2020-2025 Asia & Pacific Lpg Tankers Key Players Market Share
Table 2020-2030 Asia & Pacific Lpg Tankers Market Size by Type
Table 2020-2030 China Lpg Tankers Market Size
Table 2020-2030 India Lpg Tankers Market Size
Table 2020-2030 Japan Lpg Tankers Market Size
Table 2020-2030 South Korea Lpg Tankers Market Size
Table 2020-2030 Southeast Asia Lpg Tankers Market Size
Table 2020-2030 Australia Lpg Tankers Market Size
Table 2020-2030 Europe Lpg Tankers Market Size
Figure 2020-2030 Europe Lpg Tankers Market Size and CAGR
Table 2020-2030 Europe Lpg Tankers Market Size by Application
Table 2020-2025 Europe Lpg Tankers Key Players Revenue
Table 2020-2025 Europe Lpg Tankers Key Players Market Share
Table 2020-2030 Europe Lpg Tankers Market Size by Type
Table 2020-2030 Germany Lpg Tankers Market Size
Table 2020-2030 France Lpg Tankers Market Size
Table 2020-2030 United Kingdom Lpg Tankers Market Size
Table 2020-2030 Italy Lpg Tankers Market Size
Table 2020-2030 Spain Lpg Tankers Market Size
Table 2020-2030 Belgium Lpg Tankers Market Size
Table 2020-2030 Netherlands Lpg Tankers Market Size
Table 2020-2030 Austria Lpg Tankers Market Size
Table 2020-2030 Poland Lpg Tankers Market Size
Table 2020-2030 Russia Lpg Tankers Market Size
Table 2020-2030 MEA Lpg Tankers Market Size
Figure 2020-2030 MEA Lpg Tankers Market Size and CAGR
Table 2020-2030 MEA Lpg Tankers Market Size by Application
Table 2020-2025 MEA Lpg Tankers Key Players Revenue
Table 2020-2025 MEA Lpg Tankers Key Players Market Share

Table 2020-2030 MEA Lpg Tankers Market Size by Type
Table 2020-2030 Egypt Lpg Tankers Market Size
Table 2020-2030 Israel Lpg Tankers Market Size
Table 2020-2030 South Africa Lpg Tankers Market Size
Table 2020-2030 Gulf Cooperation Council Countries Lpg Tankers Market Size
Table 2020-2030 Turkey Lpg Tankers Market Size
Table 2020-2025 Global Lpg Tankers Market Size by Region
Table 2020-2025 Global Lpg Tankers Market Size Share by Region
Table 2020-2025 Global Lpg Tankers Market Size by Application
Table 2020-2025 Global Lpg Tankers Market Share by Application
Table 2020-2025 Global Lpg Tankers Key Vendors Revenue
Figure 2020-2025 Global Lpg Tankers Market Size and Growth Rate
Table 2020-2025 Global Lpg Tankers Key Vendors Market Share
Table 2020-2025 Global Lpg Tankers Market Size by Type
Table 2020-2025 Global Lpg Tankers Market Share by Type
Table 2025-2030 Global Lpg Tankers Market Size by Region
Table 2025-2030 Global Lpg Tankers Market Size Share by Region
Table 2025-2030 Global Lpg Tankers Market Size by Application
Table 2025-2030 Global Lpg Tankers Market Share by Application
Table 2025-2030 Global Lpg Tankers Key Vendors Revenue
Figure 2025-2030 Global Lpg Tankers Market Size and Growth Rate
Table 2025-2030 Global Lpg Tankers Key Vendors Market Share
Table 2025-2030 Global Lpg Tankers Market Size by Type
Table 2025-2030 Lpg Tankers Global Market Share by Type

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