

Global Extraction of High Purity Helium from LNG-BOG Market Growth 2026-2032

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Abstracts

The global Extraction of High Purity Helium from LNG-BOG market size is predicted to grow from US\$ 224 million in 2025 to US\$ 343 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Extraction of high-purity helium from LNG-BOG refers to the process of finely separating and purifying liquefied natural gas boil-off gas (BOG) to concentrate trace amounts of helium into high-purity helium. This technology utilizes the relatively high helium concentration in BOG to effectively separate helium and purify it to high purity (usually 99.999%) through methods such as low-temperature fractionation, membrane separation or pressure swing adsorption. It is widely used in high-end fields such as electronic manufacturing, medical equipment, and scientific research, while achieving efficient recovery and utilization of helium resources.

United States market for Extraction of High Purity Helium from LNG-BOG is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Extraction of High Purity Helium from LNG-BOG is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Extraction of High Purity Helium from LNG-BOG is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Extraction of High Purity Helium from LNG-BOG players cover Helios,

QatarEnergy, Freeport LNG, Shaanxi Liquefied Natural Gas Invest Dev, Shanghai Yueda New industrial Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Extraction of High Purity Helium from LNG-BOG Industry Forecast" looks at past sales and reviews total world Extraction of High Purity Helium from LNG-BOG sales in 2025, providing a comprehensive analysis by region and market sector of projected Extraction of High Purity Helium from LNG-BOG sales for 2026 through 2032. With Extraction of High Purity Helium from LNG-BOG sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Extraction of High Purity Helium from LNG-BOG industry.

This Insight Report provides a comprehensive analysis of the global Extraction of High Purity Helium from LNG-BOG landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Extraction of High Purity Helium from LNG-BOG portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Extraction of High Purity Helium from LNG-BOG market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Extraction of High Purity Helium from LNG-BOG and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Extraction of High Purity Helium from LNG-BOG.

This report presents a comprehensive overview, market shares, and growth opportunities of Extraction of High Purity Helium from LNG-BOG market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

5N Helium

6N Helium

Segmentation by Application:

Semiconductor

Medical

Military

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Helios

QatarEnergy

Freeport LNG

Shaanxi Liquefied Natural Gas Invest Dev

Shanghai Yueda New industrial Group

Zhongneng North Natural Gas

Sinopec

Jiangxi Jovo Energy

Shanxi Feng Bai Energy

Shuifa Energas Gas

Inner Mongolia Wanrui Natural Gas

Sichuan Air Separation Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Extraction of High Purity Helium from LNG-BOG market?

What factors are driving Extraction of High Purity Helium from LNG-BOG market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Extraction of High Purity Helium from LNG-BOG market opportunities vary by end market size?

How does Extraction of High Purity Helium from LNG-BOG break out by Type, by Application?

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