

# Industrial Gas Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Nitrogen, Oxygen, Carbon Dioxide, Hydrogen, Other Industrial Gas), By Mode of Supply (Bulk, Packaging, Pipe Line), By Packaging, By End User Industry

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## Abstracts

The Industrial Gas Market is valued at USD 170 billion in 2025 and is projected to grow at a CAGR of 15.2% to reach USD 607.9 billion by 2034. The industrial gas market involves the production and supply of gases such as oxygen, nitrogen, hydrogen, carbon dioxide, and argon used across various industries including chemicals, healthcare, energy, metals, and food processing. These gases are vital for applications such as combustion, inerting, welding, cryogenics, and medical therapies. The market is characterized by bulk delivery systems, on-site generation, and gas-as-a-service models. With rising industrialization and demand for cleaner, efficient processes, the use of industrial gases continues to expand. Technological advancements and sustainability requirements are also driving innovation in gas production, storage, and distribution methods worldwide. The industrial gas market experienced steady growth, supported by rising demand from the energy, electronics, and healthcare sectors. Hydrogen gained prominence as a clean energy vector, with infrastructure projects and mobility initiatives accelerating its industrial usage. Medical oxygen demand remained elevated, particularly in emerging economies. The metals and manufacturing sectors increased usage of oxygen and argon for welding and cutting operations. Gas suppliers expanded investments in small-scale liquefaction plants, on-site generators, and mobile gas distribution to improve supply flexibility and reduce emissions. Strategic collaborations between gas companies and OEMs enhanced delivery logistics and process integration. The market is expected to grow with increased emphasis on green hydrogen, carbon capture utilization and storage (CCUS), and circular economy applications. Gas companies will focus on decarbonizing production using electrolysis

and renewable energy sources. Smart gas monitoring and management systems will become more common, improving efficiency and safety. Emerging markets will see increased gas usage in semiconductors, pharmaceuticals, and clean manufacturing. Additionally, modular and on-demand gas systems will support decentralized production models. ESG-focused investment will guide strategic expansion, especially in sectors transitioning toward low-carbon operations and digitalized process control.

## Key Insights Industrial Gas Market

Green hydrogen production and low-carbon gas solutions are gaining momentum in line with decarbonization goals.

Modular and on-site gas generation systems are being adopted to reduce logistics and ensure continuous supply.

Digital gas monitoring tools are enhancing safety, reducing losses, and improving real-time supply chain visibility.

Medical gas applications are expanding in emerging economies due to improved healthcare infrastructure investments.

Gas-as-a-service models are gaining traction, offering subscription-based, integrated supply and maintenance services.

Industrial growth in sectors such as healthcare, electronics, and energy is fueling consistent demand for specialty gases.

Green energy and hydrogen transition efforts are creating long-term opportunities for sustainable gas solutions.

Advanced manufacturing and cleanroom environments require high-purity gases for precision processes.

Environmental regulations are encouraging investment in low-emission gas production and distribution infrastructure.

Volatile raw material and energy prices can significantly impact production costs and profitability for gas suppliers.

Transportation and storage of cryogenic and flammable gases require high safety standards and infrastructure investment.

## Industrial Gas Market Segmentation

### By Type

Nitrogen

Oxygen

Carbon Dioxide

Hydrogen

Other Industrial Gas

### By Mode of Supply

Bulk

Packaging

Pipe Line

### By Packaging

Cylinders

Bottles

Canisters

Cartridges

Cryogenic Tanks/Vessels

Other Packagings

### By End User Industry

Chemicals

Metallurgy

Manufacturing

Food & Beverage

Healthcare

Other End-User Industries

### Key Companies Analysed

Air Liquide

The Linde Group

Praxair

Inc.

Air Products and Chemicals Inc.

Mitsubishi Chemical Holdings Corp.

### Industrial Gas Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector

influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Industrial Gas Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Industrial Gas market data and outlook to 2034

United States

Canada

Mexico

Europe — Industrial Gas market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Industrial Gas market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Industrial Gas market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

## South and Central America — Industrial Gas market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

### Research Methodology

This study combines primary inputs from industry experts across the Industrial Gas value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Industrial Gas industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and

what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Industrial Gas Market Report

Global Industrial Gas market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Industrial Gas trade, costs, and supply chains

Industrial Gas market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Industrial Gas market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Industrial Gas market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Industrial Gas supply chain analysis

Industrial Gas trade analysis, Industrial Gas market price analysis, and Industrial Gas supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Industrial Gas market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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