

## **United States Rare Gases Market Size and Share - Outlook Report, Forecast Trends and Growth Analysis (2025-2034)**

Market Report | 2025-06-29 | 115 pages | EMR Inc.

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### **Report description:**

The United States rare gases market was valued at USD 275.18 Million in 2024 . The industry is expected to grow at a CAGR of 4.80% during the forecast period of 2025-2034 to attain a valuation of USD 439.77 Million by 2034 .

{{IS\_GRAPH}}

### United States Rare Gases Market Outlook

The United States rare gases market expansion is being fuelled by rapid economic growth and industrial development. Rare gases like krypton, argon, and neon find wide-ranging applications in semiconductor manufacturing and welding processes in the automotive industry. They are also used in energy-efficient lighting solutions and windows that drive sustainability within the construction sector. In the healthcare industry, rare gases like xenon are used in the production of medical imaging equipment and anaesthesia, while radon is utilised in cancer treatments through radiotherapy.

Increasing innovations in technologies related to capturing and purifying rare gases have made them more cost-effective and accessible, which is expected to drive the United States rare gases market development over the forecast period.

### The Rising Demand for Helium in Diverse Applications is One of the Crucial United States Rare Gases Market Trends

- Helium is expected to lead the market by type with a CAGR of 4.9% between 2025 and 2034. The critical applications of helium in healthcare (such as MRI machines), electronics, and scientific research are boosting the United States rare gases market revenue.

- Argon follows with a CAGR of 4.6%, reflecting its widespread use in welding, electronics manufacturing, and healthcare.

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- Neon is estimated to grow at a CAGR of 4.4% during the forecast period of 2025-2034. The importance of neon gas in lighting, signage, and high-tech applications like lasers is shaping the United States rare gases market dynamics and trends.
- Krypton, growing at a CAGR of 4.1%, is utilised in lighting and window insulation, though its growth is more moderate compared to other noble gases.
- Xenon, with a CAGR of 3.9%, continues to grow in specialised applications such as lighting, imaging, and anaesthesia, but its high-cost limits wider adoption.
- As per the United States rare gases market analysis, the 'Others' category, with a CAGR of 3.4%, includes additional noble gases contributing to overall market growth but at a slower pace due to their niche applications.

#### The Growing Demand for Noble Gases in Semiconductor Manufacturing is Driving the United States Rare Gases Market Growth

- Electronics is projected to dominate the market by application with a CAGR of 4.9% between 2025 and 2034. The increasing demand for noble gases in semiconductor manufacturing and other high-tech industries is creating lucrative United States rare gases market opportunities.
- Healthcare follows with a CAGR of 4.6%, supported by the growing use of gases in medical imaging, respiratory therapies, and other critical healthcare applications.
- Industrial applications are estimated to grow at a CAGR of 4.4% during the forecast period of 2025-2034. The growing use of noble gases in welding, cutting, and other manufacturing processes that require precision and stability is driving the United States rare gases demand growth.
- Lighting, growing at a CAGR of 4.1%, continues to utilise gases like neon and krypton in specialised lighting solutions, though the market is more mature.
- As per the United States rare gases industry statistics, the 'Others' category, with a CAGR of 3.9%, includes additional applications contributing to overall market growth, albeit at a slower pace due to their specialized or emerging nature.

#### United States Rare Gases Market Regional Analysis

- The Far West region is expected to lead the market with the highest CAGR of 5.0%. The United States rare gases market value is increasing amid the region's strong technological industry, particularly in electronics and healthcare, which are major consumers of noble gases.
- The Rocky Mountain region follows with a CAGR of 4.7%, supported by its growing industrial base and increasing investment in healthcare and advanced manufacturing.
- The Southwest, with a CAGR of 4.4%, is expected to hold a significant portion of the United States rare gases market share. The region benefits from its diverse industrial activities and a rising demand for gases in both the healthcare and manufacturing sectors.
- The Southeast region, growing at a CAGR of 4.3%, shows steady growth due to its expanding industrial infrastructure and healthcare facilities.

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- New England, at 4.0%, reflects consistent growth driven by its well-established healthcare sector and research institutions.
- The United States rare gases market regional statistics show that the Mideast, Plains, and Great Lakes regions, with CAGRs of 3.7%, 3.4%, and 3.2%, respectively, experience slower growth due to varying levels of industrial activity, market maturity, and differing degrees of investment in advanced technologies.

Key Questions Answered in This Report:

- How has the United States rare gases market performed historically, and what are the growth expectations for the future?
- What are the primary factors influencing demand and growth in the United States rare gases market?
- What are the key segments within the United States rare gases market, and how are they expected to evolve over the forecast period?
- What are the major challenges and opportunities facing stakeholders in the United States rare gases market?
- Who are the key players in the United States rare gases market, and what strategies are they employing to maintain a competitive edge?
- What are the regulatory and policy factors influencing the United States rare gases market globally or regionally?
- How competitive is the United States rare gases market according to Porter's five forces analysis, including factors like bargaining power of buyers and suppliers?
- What are the current trends shaping the United States rare gases market landscape, and how are they expected to evolve in the future?
- How are technological advancements impacting the United States rare gases market, and what role do innovation and R&D play in driving growth?
- What are the consumer preferences and buying behavior trends influencing the United States rare gases market?
- How sustainable are current growth rates in the United States rare gases market, and what factors could potentially disrupt these trends?
- What are the regional dynamics within the United States rare gases market, and how do they contribute to overall market growth?
- What are the economic factors influencing the United States rare gases market, such as GDP growth, inflation rates, and currency fluctuations?
- How are demographic shifts, such as aging populations or urbanization trends, affecting demand in the United States rare gases market?
- What are the key strategic partnerships, mergers, and acquisitions shaping the competitive landscape of the United States rare

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gases market?

- What are the regulatory and legal frameworks impacting the United States rare gases market globally or in key regions?
- How are changing consumer lifestyles and preferences influencing product or service demand within the United States rare gases market?
- What are the emerging market trends and niche opportunities within the United States rare gases market that stakeholders should be aware of?
- How resilient is the United States rare gases market to external shocks or disruptions, such as geopolitical tensions or natural disasters?
- What are the potential barriers to market entry and growth for new players in the United States rare gases market?

Key Benefits for Stakeholders:

Expert Market Research's industry report provides a comprehensive quantitative analysis of various market segments, historical and current market trends, and forecasts the dynamics of the United States rare gases market spanning from 2018 to 2034.

The research report delivers up-to-date insights into the market drivers, challenges, and opportunities shaping the United States rare gases industry.

Stakeholders can leverage Porter's five forces analysis to assess the impact of new entrants, competitive rivalry, supplier power, buyer power, and the threat of substitution. This analysis aids in evaluating the competitiveness and attractiveness of the United States rare gases market.

The competitive landscape section enables stakeholders to gain a deep understanding of their competitive environment. It offers insights into the current market positions of key players, their strategies, and their market shares.

Additionally, the report highlights emerging trends, regulatory influences, and technological advancements that are pivotal for stakeholders navigating the United States rare gases market landscape.

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