

# **Canada Industrial Gases Market, By Product (Oxygen, Nitrogen, Carbon Dioxide, Hydrogen, Argon, Helium), By Mode of Distribution (Tonnage/Gaseous, Bulk & Cylinder, Packaged), By Region, Competition, Forecast & Opportunities, 2028**

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## **Abstracts**

Canada Industrial Gases Market is expected to grow impressively through 2028 due to the increasing demand from the healthcare industry. In 2021, the total market valuation of the global industrial gases market amounted to USD 93.3 billion in 2021.

Industrial gases are a crucial component in modern manufacturing and production. These gases are utilized in various applications across industries, such as energy, healthcare, food and beverage, chemicals, and electronics. They play a significant role in enabling industrial processes, enhancing product quality, and optimizing efficiency. Industrial gases are primarily produced by air separation units that utilize various methods to extract nitrogen, oxygen, and argon from the air. Other gases, such as hydrogen, helium, and carbon dioxide are also produced using various methods, such as reforming, synthesis, and extraction.

One of the most significant industrial gases is oxygen. It is utilized in a range of applications, from metal fabrication to medical treatment. In metal fabrication, oxygen is used to enhance the combustion process, which results in a cleaner and more efficient flame. Oxygen is also used in the medical industry to treat respiratory disorders and assist in anesthesia. Industrial gases play a significant role in enabling industrial processes, enhancing product quality, and optimizing efficiency. They are utilized in a range of industries and applications, from food packaging to electronics manufacturing, and have a significant impact on the quality and efficiency of various products and processes. The industrial gas industry is composed of large multinational corporations

that provide a diverse range of products and services to various industries, and it continues to evolve as new applications and technologies emerge.

The industrial gases market in Canada is an important sector that plays a significant role in the country's manufacturing, energy, healthcare, and food industries. The market is highly competitive, with several multinational corporations, including Air Liquide, Linde, and Air Products, operating in the country. The primary industrial gases produced and consumed in Canada include nitrogen, oxygen, argon, and carbon dioxide. Nitrogen is the most consumed gas in the country, with applications in the food industry, pharmaceuticals, and electronics manufacturing. Oxygen is also widely consumed in various applications, such as metal fabrication and healthcare.

The healthcare industry is one of the major consumers of industrial gases in Canada, with significant demand for oxygen, nitrogen, and carbon dioxide. Industrial gases are used in medical applications, such as anesthesia, respiratory therapy, and medical imaging. The aging population in Canada has led to an increase in demand for healthcare services, which has driven the growth of the industrial gases market in the country.

The industrial gases market in Canada plays a vital role in the country's economy. The market is driven by the demand from various industries, including healthcare, food, and energy. The government's initiatives to promote sustainable development and reduce greenhouse gas emissions have also contributed to the growth of the industry. The market is highly competitive, with multinational corporations dominating the industry, but there is also a growing presence of smaller, specialized players.

### Demand for Industrial Gases in Healthcare and Food & Beverages Industries Propelling Market

The healthcare industry is one of the major consumers of industrial gases in Canada. The aging population in Canada has led to an increase in demand for healthcare services, which has driven the growth of the industrial gases market in the country. Industrial gases such as oxygen, nitrogen, and carbon dioxide are used in medical applications such as anesthesia, respiratory therapy, and medical imaging.

The food and beverage industry is another major consumer of industrial gases in Canada, with significant demand for carbon dioxide for use in carbonation and packaging. Nitrogen is also used in the food industry to preserve the freshness of packaged foods, while oxygen is used in the wine industry to enhance the aging

process. The growth of the food and beverage industry has led to an increase in demand for industrial gases, driving the growth of the market.

### Technological Advancements and Government Initiatives Driving Market

The industrial gases market in Canada has experienced significant technological advancements in recent years, which has increased efficiency and reduced costs. This has led to an increase in demand for industrial gases, driving the growth of the market. The Canadian government has introduced regulations and incentives to encourage the use of industrial gases in clean energy production and reduce emissions from industrial processes. This has led to an increase in demand for industrial gases, driving the growth of the market.

The energy industry is also a significant consumer of industrial gases in Canada, with a demand for nitrogen and carbon dioxide for use in enhanced oil recovery and carbon capture and storage. The growth of the energy industry has led to an increase in demand for industrial gases, driving the growth of the market. The electronics industry is one of the fastest-growing industries in Canada, with significant demand for nitrogen and argon for use in the production of electronic components. The growth of the electronics industry has led to an increase in demand for industrial gases, driving the growth of the market.

### Major Challenges Faced by Canada Industrial Gases Market

The industrial gases market in Canada is highly competitive, with several multinational corporations and regional players operating in the industry. The competition has led to price wars, which have reduced profit margins for industry players.

The prices of raw materials used in the production of industrial gases, such as natural gas and nitrogen, are volatile and subject to fluctuations. This volatility affects the cost of production and pricing strategies of industry players.

The Canadian government has introduced regulations and policies to promote sustainable development and reduce greenhouse gas emissions. Compliance with these regulations has increased the cost of production for industry players, affecting their profitability.

The country's industrial gases market is associated with environmental concerns, such as greenhouse gas emissions and waste generation. Industry players are under

pressure to reduce their environmental impact, which has led to an increase in research and development costs.

While technological advancements have driven this market, they have also created challenges for market players. Rapid technological advancements have led to the obsolescence of equipment and the need for continuous investment in research and development.

The Canada industrial gases market requires significant infrastructure, including storage and transportation facilities, to distribute products to customers. Infrastructure constraints, such as limited storage facilities and transportation networks, have affected the industry's ability to meet customer demand and resulted in increased costs.

### Recent Trends and Developments

Several industry players have invested in expanding their production capacity in Canada to meet the growing demand. In 2020, Air Liquide announced the expansion of its production capacity for nitrogen and argon in Western Canada. Similarly, in 2021, Linde announced the expansion of its carbon dioxide production capacity in Western Canada to meet the growing demand from the food and beverage industry.

The Government of Canada has introduced policies and incentives to promote clean energy production and reduce greenhouse gas emissions. Several market players have invested in clean energy technologies, such as carbon capture and storage, to reduce their environmental impact. In 2019, Air Products announced a partnership with the Canadian government to build a hydrogen production plant powered by hydroelectricity in Quebec.

The industrial gases market in Canada has taken up digital technologies to improve operational efficiency and customer experience. In 2019, Linde launched a digital platform, LindeX, which enables customers to manage their accounts, order products, and access real-time data. Similarly, Air Liquide launched a digital platform, ALIGAL, which enables customers to track the quality and availability of industrial gases.

Sustainability has become a key focus for the Canada industrial gases market. Key players are investing in renewable energy sources, reducing their environmental impact, and adopting circular economy principles. In 2019, Air Liquide announced the construction of a biogas purification plant in Quebec, which will produce renewable natural gas for the transportation sector. Similarly, Linde announced the development of

a hydrogen refueling station in Quebec to support the uptake of fuel cell vehicles.

## Market Segmentation

The Canada industrial gases market is segmented based on product type, mode of distribution, and region. Based on product type, the market is categorized into oxygen, nitrogen, carbon dioxide, hydrogen, argon, and helium. Based on mode of distribution, the market is divided into tonnage/gaseous, bulk & cylinder, and packaged. Based on region, the market is divided into Quebec, Ontario, Alberta, British Columbia, Saskatchewan & Manitoba, and the Rest of Canada.

## Market Players

Air Liquide Canada Inc., Praxair Canada Inc., Linde Canada Limited, Air Products Canada Ltd., Messer Canada Inc., Taiyo Nippon Sanso Corporation., Chart Industries Canada ULC, Matheson Canada Inc., NexAir Canada, and Atlas Welding Supply Co. Ltd. are some of the key players of the Canada Industrial Gases Market.

## Report Scope:

In this report, the Canada industrial gases market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

### Industrial Gases Market, By Product:

Oxygen

Nitrogen

Carbon Dioxide

Hydrogen

Argon

Helium

### Industrial Gases Market, By Mode of Distribution:

Tonnage/Gaseous

Bulk & Cylinder

Packaged

Industrial Gases Market, By Region:

Quebec

Ontario

Alberta

British Columbia

Saskatchewan & Manitoba

Rest of Canada

Competitive landscape

Company Profiles: Detailed analysis of the major companies present in the Canada Industrial Gases market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

1. Product Overview
  - 1.1. Market Definition
  - 1.2. Scope of the Market
    - 1.2.1. Markets Covered
    - 1.2.2. Years Considered for Study
    - 1.2.3. Key Market Segmentations

## 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Types
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

## 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

## 4. VOICE OF CUSTOMER

## 5. CANADA INDUSTRIAL GASES MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value & Volume
- 5.2. Market Share & Forecast
  - 5.2.1. By Product (Oxygen, Nitrogen, Carbon Dioxide, Hydrogen, Argon, Helium)
  - 5.2.2. By Mode of Distribution (Tonnage/Gaseous, Bulk & Cylinder, Packaged)
  - 5.2.3. By Region (Quebec, Ontario, Alberta, British Columbia, Saskatchewan & Manitoba)

- 5.2.4. By Company (2022)
- 5.3. Product Market Map

## **6. CANADA OXYGEN MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value & Volume
- 6.2. Market Share & Forecast
  - 6.2.1. By Application (Metallurgy, Light Engineering Industry, Medical, and Others)
  - 6.2.2. By Mode of Distribution

## **7. CANADA NITROGEN MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value & Volume
- 7.2. Market Share & Forecast
  - 7.2.1. By Application (Petrochemical, Pharma & Chemical Industry, Metallurgy, and Others)
  - 7.2.2. By Mode of Distribution

## **8. CANADA CARBON DIOXIDE MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value & Volume
- 8.2. Market Share & Forecast
  - 8.2.1. By Application (Welding, Food & Beverages, Chemical & Petrochemical, Healthcare, and Others)
  - 8.2.2. By Mode of Distribution

## **9. CANADA HYDROGEN MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value & Volume
- 9.2. Market Share & Forecast
  - 9.2.1. By Application (Hydrogenation of Fats and Oils, Refinery, Chemical and Petrochemicals, Metallurgical & Metal Processing, Fuel & Atomic Power Generation, and Others)
  - 9.2.2. By Mode of Distribution



## **10. CANADA ARGON MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value & Volume

### 10.2. Market Share & Forecast

#### 10.2.1. By Application (Welding, Metallurgy, and Others)

#### 10.2.2. By Mode of Distribution

## **11. CANADA HELIUM MARKET OUTLOOK**

### 11.1. Market Size & Forecast

#### 11.1.1. By Value & Volume

### 11.2. Market Share & Forecast

#### 11.2.1. By Application (Ballooning, MRI, Saturation Diving, NMR, and Others)

#### 11.2.2. By Mode of Distribution

## **12. MARKET DYNAMICS**

### 12.1. Drivers

### 12.2. Challenges

## **13. MARKET TRENDS & DEVELOPMENTS**

### 13.1. Merger & Acquisition

### 13.2. Product Development

### 13.3. Recent Developments

## **14. PORTERS FIVE FORCES ANALYSIS**

### 14.1. Competition in the Industry

### 14.2. Potential of New Entrants

### 14.3. Power of Suppliers

### 14.4. Power of Customers

### 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

### 15.1. Business Overview

### 15.2. Company Snapshot

15.3. Products & Services

15.4. Financials (As Reported)

15.5. Recent Developments

15.5.1. Air Liquide Canada Inc.

15.5.2. Praxair Canada Inc.

15.5.3. Linde Canada Limited

15.5.4. Air Products Canada Ltd.

15.5.5. Messer Canada Inc.

15.5.6. Taiyo Nippon Sanso Corporation

15.5.7. Chart Industries Canada ULC

15.5.8. Matheson Canada Inc.

15.5.9. NexAir Canada

15.5.10. Atlas Welding Supply Co. Ltd.

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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