

North America Explosion-Proof Equipment Market
Forecast to 2031 - Regional Analysis - by Systems
[Junction Boxes and Enclosures, Lighting System,
Monitoring System (Cameras, Data Loggers, Sensors,
and Others), Signaling Devices, Automation System,
Cable Glands, HVAC Systems, and Others], Protection
Method (Explosion Prevention, Explosion
Containment, and Explosion Segregation), and
Industry (Oil and Gas, Manufacturing, Mining,
Chemical and Petrochemical, Energy and Power,
Pharmaceutical, Water and Wastewater Management,
and Others)

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# **Abstracts**

The North America explosion proof equipment market was valued at US\$ 3,046.17 million in 2023 and is expected to reach US\$ 4,893.73 million by 2031; it is estimated to register a CAGR of 6.1% from 2023 to 2031.

Growth in Oil & Gas Industry Fuels North America Explosion Proof Equipment Market

Explosion-proof equipment plays a crucial role in the oil & gas industry. In this industry, flammable liquids, gases, vapors, or combustible dust exist in sufficient quantities; hence, the safety of workers is the top priority. Generally, refineries, oil plants, and offshore facilities are constantly exposed to flammable substances. Manufacturers produce and rigorously test explosion-proof assets to combat the high possibility of



ignition. For instance, in November 2023, Mitsubishi Heavy Industries, Ltd. (MHI) carried out autonomous inspections at a refinery using the "ASCENT," a second-generation "EX ROVR" plant inspection robot with explosion-proof features currently under joint development with ENEOS Corporation.

The use of explosion-proof equipment in oil and gas refineries has aided in reinforcing safety measures for unpredictable work environments. Dangerous compounds in oil and gas facilities indicate several safety challenges for the workers. For instance, hydrocarbon processing, including ethane, fossil fuels, methane, and propane, is a critical process that needs to be carried out under stable atmospheres. Additionally, the increasing number of upcoming oil and gas plants in various countries is fueling the requirement for explosion-proof equipment. For instance, in May 2024, Canada's oil and natural gas production hit record-high levels, and the country is amplifying its status as a global oil and natural gas superpower. This expansion of oil production and crude transportation capacities comes simultaneously while Canada is trying to ramp up its natural gas sector. The first phase of the LNG Canada liquified natural gas export facility, the largest private investment in Canadian history, is now reaching completion in Kitimat, British Columbia. The project is expected to fully start in 2025.

Several companies are engaged in increasing oil production. For instance, the International Monetary Fund expects OPEC and its partners to gradually increase oil production from July 2024. Therefore, with the growth of the oil & gas industry, the demand for explosion-proof equipment is also rising to ensure the safety of all operators and workers working in oil and gas plants.

North America Explosion Proof Equipment Market Overview

The North America explosion-proof equipment market consists of several countries, including the US, Canada, and Mexico. In North America, countries such as the US and Canada are known for adopting advanced technologies, high standards of living, and developed infrastructure. High disposable incomes and technological advancements have been propelling the growth of the explosion-proof equipment market as every type of industry, either SMEs or large enterprises, is focusing on deploying explosion-proof equipment in their factories. North America is expected to dominate the explosion-proof equipment market as it has the highest number of manufacturers and oil & gas fields. For instance, according to the National Association of Manufacturers, manufacturers in the US accounted for 10.70% of the total output in the country, employing 8.41% of the workforce. Total output from manufacturing was US\$ 2.5 trillion in 2021.



Canada's total refining capacity is approximately 2 million bpd. New clean fuel regulations established by the Canadian federal government require an increasing number of refiners to reach net-zero emissions by 2050. Due to this, various companies in the region are announcing investments in oil and gas plant facilities. For instance, in January 2023, Imperial Oil announced that it was investing US\$ 527 million to build the largest renewable diesel facility in Canada. Initial production has already begun at Imperial's Strathcona refinery near Edmonton, Alberta. When the module is commissioned in 2025, it will be able to produce 20,000 bpd from a feedstock of locally sourced canola and soy, as well as blue hydrogen. Tidewater Renewables invested US\$ 315 million to build Canada's first stand-alone renewable diesel refinery. The plant, located in Prince George, British Columbia, entered production in mid-2023. With the growth of manufacturing and oil & gas industries in the region, the need to employ a larger number of workers and operators and maintain their safety in the factories is also increasing. Furthermore, in North America, the water and wastewater industry is growing as the governments in the countries are investing in this industry. For instance, in September 2023, the governments of Canada and British Columbia, alongside the municipalities of Burns Lake, Fraser Lake, and the District of Mackenzie, are investing over US\$ 10 million into three transformative water and wastewater projects. These initiatives are poised to bring cleaner and more dependable municipal services to the region, marking a crucial step in infrastructure enhancement. Hence, there is an increased demand for explosion-proof equipment in the above industries, which is driving the explosion-proof equipment market is growth in North America.

North America Explosion Proof Equipment Market Revenue and Forecast to 2031 (US\$ Million)

North America Explosion Proof Equipment Market Segmentation

The North America explosion proof equipment market is categorized into systems, protection method, industry, and country.

Based on systems, the North America explosion proof equipment market is segmented into junction boxes and enclosures, lighting system, monitoring system, signaling devices, automation system, cable glands, HVAC systems, and others. The cable glands segment held the largest market share in 2023. The monitoring system segment is further sub segmented into cameras, data loggers, sensors, and others.

In terms of protection method, the North America explosion proof equipment market is segmented into explosion prevention, explosion containment, and explosion



segregation. The explosion prevention segment held the largest market share in 2023.

By industry, the North America explosion proof equipment market is segmented into oil and gas, manufacturing, mining, chemical and petrochemical, energy and power, pharmaceutical, water and wastewater management, and others. The oil and gas segment held the largest market share in 2023.

By country, the North America explosion proof equipment market is segmented into the US, Canada, and Mexico. The US dominated the North America explosion proof equipment market share in 2023.

ABB Ltd; Cortem S.p.A.; Emerson Electric Co; Pepperl+Fuchs SE; Honeywell International Inc; Xylem Inc.; OMEGA Engineering, Inc.; Spectec Thunderbird International Corp; Motion Sensors, Inc.; BARTEC Top Holding GmbH; Rockwell Automation Inc; Siemens AG; Schneider Electric SE; Detector Electronics, LLC.; and Larson Electronics LLC are some of the leading companies operating in the North America explosion proof equipment market.

### Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the North America explosion proof equipment market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the North America explosion proof equipment market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth North America market trends and outlook coupled with the factors driving the North America explosion proof equipment market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that



underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - North America Explosion-Proof Equipment Market ABB Ltd Cortem S.p.A. Emerson Electric Co Pepperl+Fuchs SE Honeywell International Inc Xylem Inc. OMEGA Engineering, Inc. Spectec Thunderbird International Corp Motion Sensors, Inc. BARTEC Top Holding GmbH Rockwell Automation Inc Siemens AG Schneider Electric SE Detector Electronics, LLC.

Larson Electronics LLC



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