

Ozone Generation Market Size to Grow at 7.80% CAGR, Reaching USD 3.50 Billion by 2034

The global ozone generation market size was worth around USD 1.65 billion in 2024 and is predicted to grow to around USD 3.50 billion by 2034

PUNE, MAHARASHTRA, INDIA,

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EINPresswire.com/ -- The [global ozone generation market size](#), valued at approximately USD 1.65 billion in 2024, is projected to grow to USD 3.50 billion by 2034, expanding at a CAGR of 7.80%

between 2025 and 2034. This significant growth is fueled by increasing demand for clean water, stricter environmental regulations, and the adoption of ozone technology across industries such as food & beverages, pharmaceuticals, and chemicals.

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The global ozone generation market size was worth around USD 1.65 billion in 2024 and is predicted to grow to around USD 3.50 billion by 2034, (CAGR) of roughly 7.80% between 2025 and 2034.”

Deepak Rupnar

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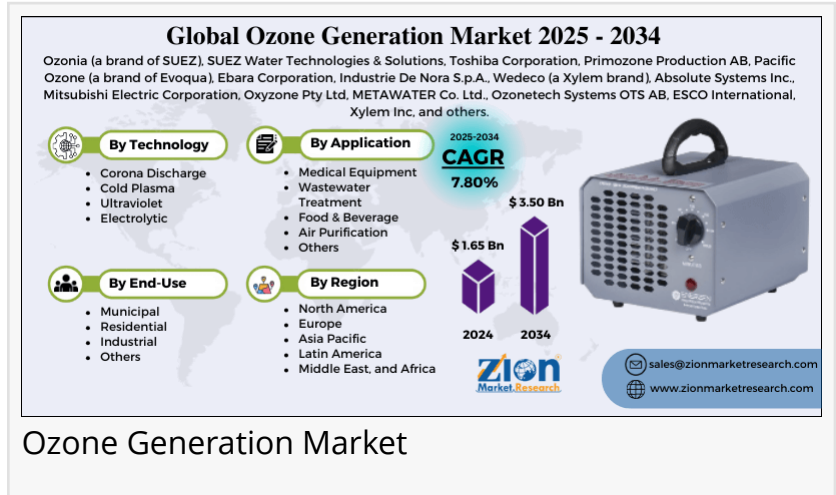
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Ozone, a powerful oxidizing agent, is increasingly used for water and wastewater treatment, air purification, and industrial disinfection. As industries and municipalities strive to meet global sustainability goals, ozone generation systems are emerging as a key green technology for reducing chemical usage, improving public health

outcomes, and maintaining environmental compliance.

Market Overview

Ozone generation refers to the production of ozone gas (O₃) using electrical discharges or UV



radiation, often via corona discharge or ultraviolet (UV) systems. Ozone's ability to oxidize organic and inorganic substances without leaving harmful residues makes it a preferred choice over traditional chemical disinfectants such as chlorine.

Key Insights:

As per the analysis shared by our research analyst, the global ozone generation market is estimated to grow annually at a CAGR of around 7.80% over the forecast period (2025-2034)

In terms of revenue, the global ozone generation market size was valued at around USD 1.65 billion in 2024 and is projected to reach USD 3.50 billion by 2034.

The ozone generation market is projected to grow at a significant rate due to the rising demand for O₃ in wastewater treatment facilities.

Based on the technology, the corona discharge segment is growing at a high rate and will continue to dominate the global market as per industry projections.

Based on the end-use, the municipal segment is anticipated to command the largest market share.

Based on region, North America is projected to dominate the global market during the forecast period.

Key market drivers include:

Rising global water scarcity and pollution concerns, driving investment in water treatment facilities.

Growth of industrial manufacturing, which requires high-quality water and air purification.

Increased adoption of ozone technology in food safety, healthcare, and pharmaceuticals due to its eco-friendly and residue-free characteristics.

Technological advancements in compact, energy-efficient ozone generation systems.

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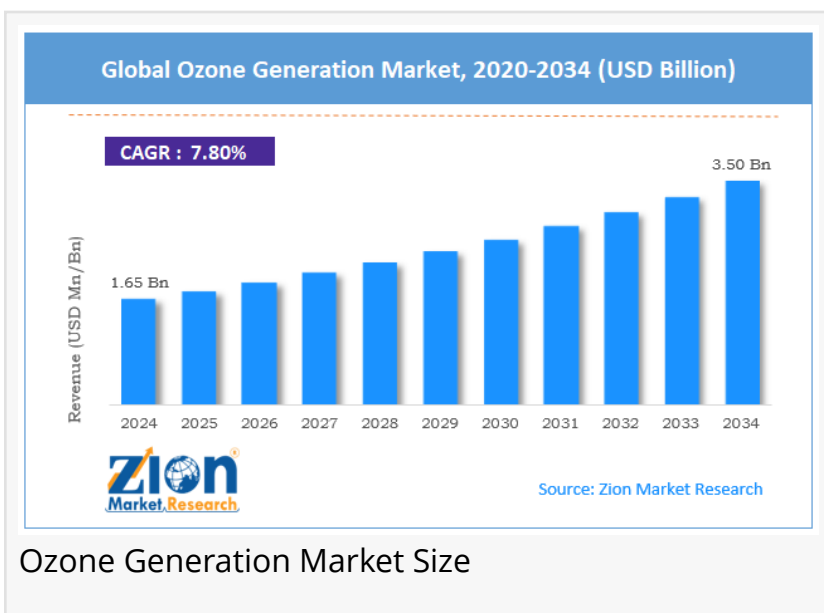
Market Segmentation

1. By Technology

Corona Discharge Systems:

The most widely used technology due to its high efficiency, scalability, and cost-effectiveness. Suitable for large municipal water treatment plants and industrial facilities.

UV (Ultraviolet) Ozone Generation Systems:



Best suited for smaller-scale applications where lower ozone concentrations are acceptable, such as laboratories or small food-processing operations.

Electrolytic Ozone Generation Systems:

Emerging technology known for high purity ozone production, ideal for medical, pharmaceutical, and specialty chemical applications.

2. By Application

Water & Wastewater Treatment:

The largest segment, driven by municipal and industrial wastewater treatment plants. Ozone effectively disinfects and removes color, taste, and odor from water.

Air Treatment & Purification:

Increasingly used in indoor air quality systems, HVAC, and industrial exhaust treatment to remove volatile organic compounds (VOCs) and odors.

Food & Beverage Processing:

Used for sanitizing equipment, extending shelf life, and disinfecting products without leaving chemical residues.

Healthcare & Pharmaceuticals:

Plays a critical role in sterilizing medical equipment, operating rooms, and pharmaceutical manufacturing facilities.

Industrial Manufacturing:

Used in chemical synthesis, bleaching, and oxidation processes in industries such as pulp & paper, textiles, and semiconductors.

3. By End-Use Industry

Municipal Water Treatment:

Governments worldwide are investing heavily in ozone-based disinfection plants to improve drinking water quality.

Food & Beverages:

Stringent food safety regulations drive the adoption of ozone systems for cleaning and sterilization.

Healthcare Facilities:

Hospitals and clinics are adopting ozone-based sterilization systems to replace traditional chemical disinfectants.

Industrial Plants:

Applications in chemical, textile, and paper industries continue to grow due to ozone's oxidizing power and eco-friendly profile.

Regional Insights

North America

North America dominates the global ozone generation market, with the United States leading adoption in both municipal and industrial applications. The region's strong focus on water conservation and stricter EPA regulations on disinfection by-products drive the shift from chlorine to ozone. Additionally, North America's well-established food and beverage processing

industry is integrating ozone systems to meet rigorous safety standards.

Europe

Europe has been a pioneer in ozone adoption for municipal water treatment and industrial disinfection. Countries such as Germany, France, and the Netherlands have robust water treatment infrastructures, while EU environmental policies encourage the use of ozone over chemical disinfectants. Demand is also rising in European healthcare and pharmaceutical sectors, where ozone's sterilizing capabilities are highly valued.

Asia-Pacific

Asia-Pacific is expected to be the fastest-growing region during the forecast period. Rapid urbanization, industrialization, and water scarcity in countries such as China, India, and Southeast Asia are fueling demand for ozone-based systems. Governments are investing heavily in wastewater recycling and safe drinking water projects, making the region a lucrative market for ozone generation equipment.

Latin America

Latin America is emerging as a promising market, with countries like Brazil and Mexico investing in water treatment infrastructure. The food processing industry in this region is also adopting ozone systems for compliance with international food safety standards.

Middle East & Africa

The Middle East and Africa are gradually adopting ozone technologies for desalination plants, water treatment facilities, and industrial applications. With rising investments in infrastructure and food processing, the region shows strong long-term potential for ozone generation systems.

Key Market Drivers

Water Scarcity and Pollution:

Growing global demand for clean water and wastewater treatment drives investments in ozone-based disinfection systems.

Stringent Environmental Regulations:

Governments worldwide are phasing out harmful chemicals like chlorine, creating a regulatory push toward ozone systems.

Growing Food Safety Concerns:

Rising incidences of foodborne illnesses and stricter safety standards are increasing the adoption of ozone systems in food processing.

Technological Innovations:

Development of compact, energy-efficient, and automated ozone generators reduces operating costs and broadens applications.

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Competitive Landscape

The ozone generation market is moderately consolidated with global and regional players competing through innovation, product launches, and strategic partnerships.

Leading Companies

Mitsubishi Electric Corporation:

Offers advanced ozone generation systems for industrial and municipal applications, known for their efficiency and reliability.

Suez Water Technologies & Solutions:

Provides turnkey ozone systems and integrated water treatment solutions globally.

Xylem Inc.:

A leading water technology company specializing in ozone-based disinfection solutions for municipal and industrial use.

Mitsubishi Kakoki Kaisha (MKK):

A pioneer in ozone generation equipment for wastewater treatment and industrial disinfection.

Other Prominent Players

Ozonix (Suez): Known for high-capacity ozone generators used in large-scale water treatment plants.

ESCO International: Specializes in air and water treatment systems integrating ozone and UV technologies.

Absolute Ozone: Focuses on high-performance ozone generators for industrial, commercial, and municipal applications.

Primozone Production AB: Swedish company known for energy-efficient ozone systems.

Pacific Ozone Technology: U.S.-based manufacturer supplying modular ozone generators for food, beverage, and water industries.

Opportunities for Growth

Integration with Smart Water Networks:

Ozone systems integrated with IoT-enabled monitoring tools can improve efficiency and reduce maintenance costs.

Decentralized Water Treatment Solutions:

Smaller, portable ozone systems can serve remote and rural communities where centralized treatment isn't feasible.

Expansion in Healthcare Sterilization:

Rising healthcare spending globally is opening new avenues for ozone systems in hospitals and laboratories.

Green Manufacturing:

Adoption of renewable energy sources and carbon-neutral processes in ozone generation equipment manufacturing can differentiate key players.

Market Challenges

High Initial Investment Costs:

Ozone systems have higher upfront costs than traditional chemical-based disinfection systems, which may deter small-scale users.

Technical Expertise Requirements:

Operation and maintenance of ozone systems require trained professionals, particularly in emerging markets.

Competition from Alternatives:

UV disinfection and advanced oxidation processes (AOPs) also compete for market share in water treatment and sterilization.

Future Outlook

The global ozone generation market is poised for robust growth driven by environmental sustainability, stricter regulations, and diversified industrial applications. Over the next decade, expect to see:

Wider adoption in emerging markets, especially Asia-Pacific and Latin America.

Integration with renewable energy and smart monitoring systems to reduce carbon footprint.

Development of compact, modular ozone systems to reach small-scale and decentralized markets.

Greater penetration into healthcare, pharmaceuticals, and food safety as ozone's benefits become more widely recognized.

By 2034, ozone generation technology will become a mainstream, globally accepted solution for disinfection and oxidation, replacing traditional chemicals in numerous applications.

Conclusion

The global ozone generation market is projected to grow from USD 1.65 billion in 2024 to USD 3.50 billion by 2034, at a CAGR of 7.80%. This growth reflects a strong shift toward eco-friendly, residue-free disinfection technologies that meet modern regulatory and sustainability standards.

North America and Europe will remain strongholds of technological innovation and adoption, while Asia-Pacific will emerge as the fastest-growing region, fueled by industrialization and massive infrastructure investments.

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Deepak Rupnar
Zion Market Research
+1 855-465-4651
richard@zionmarketresearch.com

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