

## **Ozone Generation: Technologies, Markets and Players**

Market Research Report | 2023-05-25 | 358 pages | BCC Research

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#### **Report description:**

Description

Report Scope:

This report will cover the ozone generation industry. Definitive and detailed estimates and forecasts of the global market are provided, followed by a detailed analysis of application types and regions. Ongoing market trends, growth drivers and challenges impeding the market are discussed. The scope of the market analyzed in this report includes OGT categories for water applications, air and gas treatment, and medicine on a global basis. Market segments for water applications include potable water (e.g., municipal, bottled, residential), wastewater (e.g., industrial, municipal), and process water and other water (e.g., pool and spa, aquaculture, remaining applications). The air and gas treatment category includes semiconductor manufacture and other air and gas treatment segments.

Using 2021 as the base year, the report provides estimated market data for the forecast period 2022-2027. The market size for different regions (regions by application) will also be covered. Sales value estimates are based on prices in the supply chain. Market-driving forces and industry structure are examined. International aspects are analyzed for all global regions.

This report considers the impact of COVID-19. In 2020, the growth rate of manufacturing industries worldwide was severely affected by the pandemic. The COVID-19 pandemic halted progress in every regional economy. Various governments around the globe took measures to contain the fallout from the economic slowdown.

#### Report Includes:

- 74 data tables and 50 additional tables
- An overview of the global market and technologies for ozone generation

- Estimation of the market size and analyses of global market trends, with data from 2021, 2022 and projections of compound annual growth rates (CAGRs) through 2027

- Highlights of the current and future market potential and quantification of ozone generation market based on type, application, and region

- Identification of trends that are affecting the use of ozone generation technologies and their major source markets

- Information on ozone generation methods, such as chemical reactions, electrical discharge, ultraviolet radiation, and photolysis of oxygen molecules

- Analysis of underlying technological, environmental, legal/regulatory, and political trends that may influence the size and nature of the market

- Coverage of advancements in ozone generation technology, and description of OGT categories for water applications, air and gas treatment, and medicine

- Market share analysis of the key companies of the industry and coverage of their proprietary technologies, strategic alliances, and other key market strategies and a relevant patent analysis

- Comprehensive company profiles of the leading players of the industry, including Evoqua Water Technologies Corp., MKS Instruments Inc., Toshiba Corp., Xylem Inc., Industrie De Nora, and Ebara Corp.

#### **Executive Summary**

Summary:

The global ozone generation market totaled \$REDACTED billion in 2021 and \$REDACTED billion in 2022. Growing at a CAGR of REDACTED%, the market is expected to reach \$REDACTED billion in 2027. The ozone generation industry involves the production and distribution of ozone generators, which are devices that generate ozone gas. Ozone gas is a powerful oxidizing agent and is used for various applications, including waterapplications, air and gas purification, and medicinal purposes. The technology used in ozone generationvaries depending on the application. Some ozone generators use corona discharge technology, whichinvolves the use of high voltage electrical discharge to produce ozone gas. Others use ultraviolet light togenerate ozone gas.

Some of the key market trends in ozone generation include growing demand for water and wastewater treatment for disinfecting and purifying water, increasing awareness of indoor air quality, surging healthcare industry and environmental regulations and sustainability. Ozone generators are used in air purification applications, such as in HVAC systems and industrial ventilation. With growing concerns over air pollution, the demand for effective air purification methods is expected to increase in the coming years.

It is critical to safeguard the environment and water supply. Water pollution is getting progressively worse. This problem is being tracked by all nations. Industry is the foundation of many national economies. Water contamination is a big concern on a global scale. In metropolitan settings, sewage treatment technology can efficiently treat domestic and industrial wastewater to stop sewage and contaminants from entering waterways. Ozone generation technologies are crucial components of wastewater treatment machinery.

Given the current state of ecological consciousness, dangerous emissions from industrial processes or human activity point to negative effects on the environment. There is a considerable incentive for adopting energy efficient ozone generation, carrying out research on new kinds of technologies and materials due to new laws and changing markets. The ozone generation industry is expanding into new markets, particularly in developing countries where access to clean water and air is a major concern. This presents new opportunities for companies in the industry to develop and market ozone-based solutions for these markets.

Advancements in ozone generation technology, such as the development of more efficient and compact ozone generators, are further driving the growth of the market. These new technologies are improving the efficiency and effectiveness of ozone generation, making it more accessible and cost-effective for a wider range of applications. Moreover, ozone generators offer a

more environmentally friendly and sustainable solution for water and air purification, as they do not use harmful chemicals or leave behind harmful byproducts. In the healthcare industry, ozone generators are widely used in applications such as sterilization and disinfection. With growing concerns over healthcare-associated infections, the demand for ozone generators in healthcare is expected to continue to increase in the coming years.

The ozone generation industry has been growing in recent years due to increasing concerns about environmental pollution and the need for more effective water and air treatment methods. The industry is also driven by advances in technology, which have led to more efficient and cost-effective ozone generators. However, the ozone generation industry also faces challenges related to safety and regulation. Ozone gas can be dangerous if not used properly, and there are regulations in place to ensure that ozone generators meet safety standards.

### **Table of Contents:**

Table of Contents Chapter 1 Introduction 1.1 Overview 1.2 Study Goals and Objectives 1.3 Reasons for Doing This Study 1.4 What's New in This Update? 1.5 Scope of Report **1.6 Information Sources** 1.7 Methodology 1.8 Intended Audience 1.9 Geographic Breakdown 1.10 Analyst's Credentials 1.11 BCC Custom Research 1.12 Related BCC Research Reports Chapter 2 Summary and Highlights 2.1 Overview of the Ozone Generation Industry 2.1.1 Population Growth Increasing the Need for OGT 2.1.2 OGT Offers Green Alternative 2.1.3 Air Pollution Good for OGT business 2.1.4 Successfully Completed Projects Supporting OGT Market Growth Chapter 3 Market Trends 3.1 Overview 3.2 Ozone Lifespan 3.3 Industry Landscape 3.4 History of Ozone Generation Technology 3.5 Megatrends and Innovations 3.6 Global Water Industry Trends 3.6.1 Consumer Health Awareness 3.6.2 Need for Water Management 3.7 Life Cycle Assessment of Ozone Generators 3.8 Regulatory Trends Chapter 4 Market Dynamics 4.1 Major Market Growth Drivers 4.1.1 Increasing Awareness of Environmental Pollution 4.1.2 Stringent Regulations

- 4.1.3 Advancements in Technology
- 4.1.4 Increasing Adoption in Emerging Markets
- 4.1.5 Demand for Water is Soaring in Response to Global Population
- 4.1.6 Rapid Urbanization: The Growth and Challenges of Modern Cities
- 4.1.7 Rapid Growth in Industrialization
- 4.1.8 Growth in Water Treatment Industries
- 4.1.9 Climate Change, Extreme Weather Events and OGT
- 4.1.10 Greater Health Awareness
- 4.1.11 Higher Water Quality Standards
- 4.1.12 Population Shifts Guiding OGT Market
- 4.1.13 Increasing Global Water Consumption Raising OGT demand
- 4.1.14 Freshwater Depletion and the Need for Water Purification
- 4.1.15 Water Scarcity and Stress Increasing Water Purification Needs
- 4.1.16 Mass Migrations Weighing Heavily on Water Supplies
- 4.1.17 Air Pollution is Expanding Interest in Air Purification
- 4.1.18 Ozone Generation Technologies and Global Wealth
- 4.1.19 OGT Use in Natural Disaster Response Incidents
- 4.1.20 OGTs and Healthy Work Environments
- 4.1.21 OGT Used to Decrease Harsh Chemical Use
- 4.1.22 Bottled Water Market Growth and OGT
- 4.1.23 Economic Benefits of Ozone Use
- 4.1.24 Availability of Trained Staff
- 4.2 Market Challenges/Restraints
- 4.2.1 Higher Installation Cost of Ozone Generation Technology
- 4.2.2 Lack of Awareness
- 4.2.3 Limited Access to Financing
- 4.2.4 Limited Scalability of Ozone Generation Technology
- 4.2.5 Competing Technologies: Ozone Not Alone
- 4.2.6 Technical Challenges
- 4.2.7 Pricing Pressure
- 4.2.8 Shortage of Semiconductor Chips
- 4.3 Key Market Growth Opportunities
- 4.3.1 Market for Ozone Generation Growth in Healthcare Sector
- 4.3.2 Market for Ozone Generation Growth in Food and Beverage Industry
- 4.3.3 Market for Ozone Generation Growth in Agriculture Industry
- 4.4 Successfully Completed Projects Support OGT Market Growth
- 4.4.1 U.S.
- 4.4.2 Asia
- 4.4.3 Europe
- 4.6 Ozone Installations
- 4.5 Ozone Therapy to Combat Illness
- 4.5.1 Varying Regional Acceptance of Ozone Therapy
- 4.5.2 OGT's Effect on Thriving Medical Markets
- 4.5.3 Media Safety Concerns Over Ozone
- 4.5.4 Ozone Safety Measures
- 4.6 New Technologies Combating High Costs Associated with OGT
- 4.7 OGT and Food Security and Safety Issues

- 4.8 Semiconductor Industry's Volatility and Its Effects on the OGT Market
- 4.9 OGT and Endocrine Disrupting Compounds
- 4.10 Water Recycling and Reuse Market Spurring Growth of the OGT Market
- Chapter 5 Ozone Generation Technology Background
- 5.1 Technology Overview
- 5.2 Ozone Generation Technology Methods
- 5.2.1 Corona Discharge
- 5.2.2 Ultraviolet
- 5.2.3 Electrolysis
- 5.2.4 Cold Plasma
- 5.2.5 Advanced Oxidation Processes
- 5.3 Ozone Generation Technology Applications
- 5.3.1 Ozone in Water Applications
- 5.3.2 Ozone in Air and Gas
- 5.3.3 Ozone in Medicine
- 5.4 Structure and Design of Ozone Generator
- 5.5 Ozone Generation Working Principle
- 5.5.1 Corona Discharge
- 5.5.2 Ultraviolet Radiation
- 5.5.3 Electrolysis
- 5.6 Benefits of Ozone Generation
- 5.7 Manufacturing Process of Ozone Generators
- 5.8 Ozone Production, Concentration and Solubility
- 5.9 Raw Material Trends
- 5.10 Environmental Concerns Regarding Atmospheric Ozone
- 5.11 Ozone as an Antioxidant and Disinfectant
- Chapter 6 Ozone Generation Industry Value Chain
- 6.1 Value Chain Analysis
- Chapter 7 Impact of COVID-19 and Russia/Ukraine War on the Market for Ozone Generation
- 7.1 Impact of COVID-19 on the Ozone Generation Industry
- 7.2 Impact of the Russia/Ukraine War on the Ozone Generation Industry
- Chapter 8 Ozone GenerationTechnology: Methods and Applications
- 8.1 Overview
- 8.2 Water Applications
- 8.2.1 Potable Water
- 8.2.2 Wastewater
- 8.2.3 Process Water
- 8.2.4 Other Water Treatment
- 8.3 Air and Gas Treatment
- 8.3.1 Air and Gas Treatment Segments
- 8.3.2 Other Air and Gas Treatment Segments
- 8.3.3 Food Storage
- 8.4 Medicine
- 8.4.1 Generating Medical Ozone
- 8.4.2 Medical Ozone Applications
- Chapter 9 Market Breakdown by Region
- 9.1 Global Market for Ozone Generation

9.2 Asia-Pacific 9.2.1 China 9.2.2 India 9.2.3 Japan 9.2.4 South Korea 9.3 North America 9.3.1 U.S. 9.3.2 Canada 9.4 Europe 9.4.1 Germany 9.4.2 U.K. 9.4.3 France 9.4.4 Other Countries 9.5 Middle East 9.6 Latin America and Caribbean 9.7 Africa 9.8 Australia and Oceania Chapter 10 Patent Analysis 10.1 Patent Analysis 10.2 Primozone's Improvement on Cold Plasma Ozone Generation 10.3 Ozone Nano-Bubbles of the Future 10.4 ROSE Technology and Remote-Control Operation 10.5 Household Ozone Spray 10.6 Ozone to Degrade Aflatoxin 10.7 Xylem's Advanced Oxidation Process 10.8 Ecosphere Fracks with Ozone 10.9 Roving Blue MVP Proven in Military Demonstrations 10.10 Scent Crusher Ozone Gear Bag 10.11 Touch Screen Water Faucet Ozone Generator 10.12 Mobile Disinfection Carts 10.13 Ozone Direct's Ozone Cabinet 10.14 Oxidation Technologies' Ozone Remediation Trailers 10.15 Primozone's Mobile and Containerized SM900 Chapter 11 Competitive Landscape 11.1 Overview 11.2 Company Market Share Analysis for Ozone Generation 11.3 Mergers, Acquisitions and New Product Developments **Chapter 12 Company Profiles** A2Z OZONE INC. ABSOLUTE OZONE AQUA-SUN OZONE INTERNATIONAL INC. ARGENTOX OZONE TECHNOLOGY GMBH BIOTEK ENVIRONMENTAL SCIENCE LTD. **BIOZONE MANUFACTURING SOLUTIONS BWT HOLDING GMBH** CHEMTRONICS TECHNOLOGIES CLEARWATER TECH LLC

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XYLEM INC. Chapter 13 Appendix: Abbreviations"



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