

# **Ozone Generator Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Ultraviolet, Cold Plasma, Corona Discharge, Electrolytic), By Application (Water Treatment, Air Purification, Laboratory & Medical Equipment, Others), By End-Use (Industrial, Residential, Municipal, Commercial), By Type (Large Ozone Generator (>5kg/h), Middle Ozone Generator (100 gm/h- 5 kg/h), Small Ozone Generator (**

## **Abstracts**

The Global Ozone Generator Market is projected to expand from USD 1.82 Billion in 2025 to USD 2.82 Billion by 2031, registering a CAGR of 7.57%. These devices utilize high-voltage electrical discharges or ultraviolet light to create ozone gas, a powerful oxidizing agent used for tasks ranging from water disinfection to industrial odor management. Growth in this sector is primarily spurred by strict environmental laws regarding wastewater discharge and the increasing global demand for high-quality potable water, which requires the elimination of micropollutants and pathogens. As noted by the American Water Works Association in 2024, 61.3% of surveyed water utilities were actively pursuing source water protection plans, a strategic move that demands advanced technologies like ozonation to guarantee supply safety and regulatory adherence.

Despite these drivers, market expansion faces obstacles due to the substantial initial capital investment and high energy costs required to operate industrial-grade ozone systems. These financial hurdles, coupled with the technical complexities involved in managing safety risks like gas leakage, can hinder adoption among smaller municipalities and cost-conscious industrial facilities. Consequently, while the demand for advanced treatment capabilities is rising, the economic and operational demands of installing and maintaining these systems remain a significant barrier for entities with limited resources.

### **Market Driver**

A major catalyst for the Global Ozone Generator Market is the expansion of municipal

water and wastewater infrastructure, necessitated by the need to upgrade aging utility networks and accommodate population growth. As urbanization accelerates, governments and utilities are allocating significant funding toward modernizing facilities to ensure regulatory compliance and enhance effluent quality, which directly supports the adoption of advanced ozone disinfection systems. For instance, a September 2025 report by Ocean and Coastal Futures highlighted Thames Water's proposed \$20.5 billion investment plan to stabilize operations and upgrade treatment facilities, demonstrating the massive capital flow toward infrastructure resilience that requires efficient treatment technologies.

Simultaneously, the market is being propelled by a rising demand for chemical-free and residue-free disinfection methods, particularly within industrial sectors such as energy and semiconductor manufacturing. Industries are increasingly turning to ozone solutions to achieve stringent ultrapure water standards without generating harmful chemical byproducts, a capability that traditional chlorination lacks. This shift is reflected in significant commercial milestones; for example, Veolia announced in May 2025 that it secured \$750 million in water technology contracts, including a major semiconductor project using advanced purification. Furthermore, Xylem reported a full-year 2024 revenue of \$8.6 billion in 2025, underscoring the strong financial landscape that underpins the adoption of advanced treatment solutions.

### **Market Challenge**

The significant financial commitment necessary for ozone generation systems serves as a primary restraint on market growth. Industrial-grade ozone generators require not only a substantial initial capital expenditure for installation but also incur high ongoing operational costs due to their energy-intensive requirements. This economic burden is particularly severe for smaller municipalities and industrial facilities with limited budgets, often compelling them to postpone the adoption of advanced disinfection technologies in favor of less expensive alternatives.

Furthermore, the strain on utility finances restricts the capital available for such upgrades. According to the National Association of Clean Water Agencies, the average cost of wastewater services rose by 3.7 percent in 2024, an increase driven largely by soaring operational expenses and the urgent need to repair aging infrastructure. This growing financial pressure forces water managers to prioritize essential maintenance tasks over the installation of complex treatment systems, thereby directly decelerating the growth trajectory of the global ozone generator market.

## Market Trends

A prominent trend in the market is the integration of ozone generators with Ultraviolet (UV) light or Hydrogen Peroxide systems to establish Advanced Oxidation Processes (AOP), which significantly boost oxidation potential for treating complex industrial wastewater and eliminating persistent organic pollutants. This development is driven by the limitations of traditional disinfection methods in degrading recalcitrant compounds such as PFAS and pharmaceutical residues, prompting utilities to invest heavily in more sophisticated oxidation technologies. This shift is highlighted by major market activities, such as Veolia securing contracts valued at AUD 700 million in November 2025 to deploy technological innovations for water security in Australia, signaling the substantial capital being directed toward high-performance treatment solutions.

In the commercial sector, hotels, hospitals, and commercial laundries are actively transitioning to ozone-injected laundry systems that enable cold water washing, resulting in reduced energy consumption, extended linen lifespan, and minimized chemical detergent use. This adoption of ozone-based laundry solutions is fundamentally reshaping the operational economics of the hospitality and healthcare industries by replacing thermal disinfection with oxidation, thereby eliminating the need for energy-intensive hot water cycles. The efficiency gains are tangible; as reported by Oasis Laundry in 2025, a commercial facility using modern ozone systems achieved a 30% reduction in detergent usage, validating the operational cost savings that are accelerating the technology's widespread integration.

## Key Market Players

Mitsubishi Electric Corporation

Toshiba Corporation

Daikin Industries Ltd.

Suez Utilities Company

Ozone Tech Systems

Primozone Production AB

Ebara Corporation

Lenntech

ESCO International

Pinnacle Ozone Solutions LLC

## **Report Scope**

In this report, the Global Ozone Generator Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Ozone Generator Market, By Technology

Ultraviolet

Cold Plasma

Corona Discharge

Electrolytic

### Ozone Generator Market, By Application

Water Treatment

Air Purification

Laboratory & Medical Equipment

Others

### Ozone Generator Market, By End-Use

Industrial

Residential

Municipal

Commercial

## Ozone Generator Market, By Type

Large Ozone Generator (>5kg/h)

Middle Ozone Generator (100 gm/h- 5 kg/h)

Small Ozone Generator (

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