

Municipal Ozone Generator Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Municipal Ozone Generator Market was valued at USD 143.5 million in 2024 and is estimated to grow at a CAGR of 7.2% to reach USD 282.4 million by 2034. The market is gaining steady momentum as global demand for advanced, chemical-free water and air treatment solutions surges. Rapid urbanization, stricter environmental mandates, aging infrastructure, and heightened public health concerns are prompting municipalities worldwide to seek out more effective disinfection technologies. Ozone generators are increasingly viewed as the future of municipal water and air treatment, offering high-efficiency purification without generating harmful byproducts.

As governments invest heavily in infrastructure upgrades and sustainable water management, the emphasis on eliminating emerging contaminants such as PFAS, microplastics, and pharmaceuticals is growing stronger. Ozone technology, with its superior oxidizing capabilities and operational efficiency, is positioned as a critical tool in addressing these challenges. Moreover, the rising need for decentralized treatment facilities in fast-growing urban regions is creating new opportunities for scalable ozone systems. The integration of real-time monitoring, automation, and energy-saving features further strengthens the appeal of these systems for municipalities looking for long-term, future-ready solutions.

Driven by the enforcement of strict water quality regulations, municipalities are adopting advanced disinfection systems that ensure the highest standards of public safety. Public health concerns and the need to remove resistant contaminants like *Cryptosporidium* and *Giardia* are creating strong momentum for ozone-based treatment. Ozone generators offer a powerful alternative to traditional methods, delivering safe, efficient, and chemical-free water purification. Their ability to eliminate bacteria, viruses, and

complex organic materials without producing harmful residues makes them an ideal choice for municipal applications around the world.

The urgent need for sustainable water management, combined with the challenge of aging water infrastructure, is pushing communities to upgrade their treatment technologies. Ozone systems stand out for their strong oxidizing power, enabling them to neutralize tough contaminants including pharmaceuticals, PFAS, and microplastics. Municipalities in rapidly urbanizing areas are increasingly adopting ozone-based systems not just for centralized plants but also for decentralized networks to maintain consistent water quality across different regions. Their operational efficiencies, such as energy savings and real-time monitoring, make ozone systems a smart investment for long-term infrastructure planning.

In terms of technology, the ultraviolet-based ozone segment generated USD 61 million in 2024, driven by demand for clean, non-chemical disinfection solutions in municipal water treatment. These systems are preferred for their effectiveness against emerging contaminants like pharmaceuticals, endocrine disruptors, and micro-pollutants, while minimizing byproduct formation and integrating easily into existing infrastructure.

The air treatment segment accounted for a 32% share in 2024, as urban centers battling deteriorating air quality turn to ozone generators to mitigate health risks. Adoption is rising in public facilities, transit systems, and waste management sites where odor control and microbial disinfection are critical, with tightening air quality regulations accelerating deployment.

The U.S. Municipal Ozone Generator Market reached USD 35.3 million in 2024, fueled by heightened attention to water safety and environmental quality. Rising contamination from PFAS, pharmaceuticals, and microplastics is driving municipalities to implement advanced ozone treatment technologies that deliver high-efficiency disinfection without harmful residues. As aging infrastructure becomes a growing concern, energy-efficient and reliable ozone systems are becoming increasingly essential. Federal and state-level support for infrastructure modernization is expected to further boost the adoption of ozone technology for both water and air treatment applications across the U.S.

Prominent companies operating in the Global Municipal Ozone Generator Industry include SUEZ Group, Oxidation Technologies, Eltech Ozone, Primozone, Ozone Solutions, Veolia, BIO-UV, DEL Ozone, Faraday Ozone, ORAIPL, Lenntech Water Treatment, and Oxyzone International. To strengthen their market presence, these companies are innovating energy-efficient ozone technologies, integrating digital

automation for monitoring, forging strategic partnerships with municipalities, and focusing on R&D to address complex pollutants with scalable solutions.

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