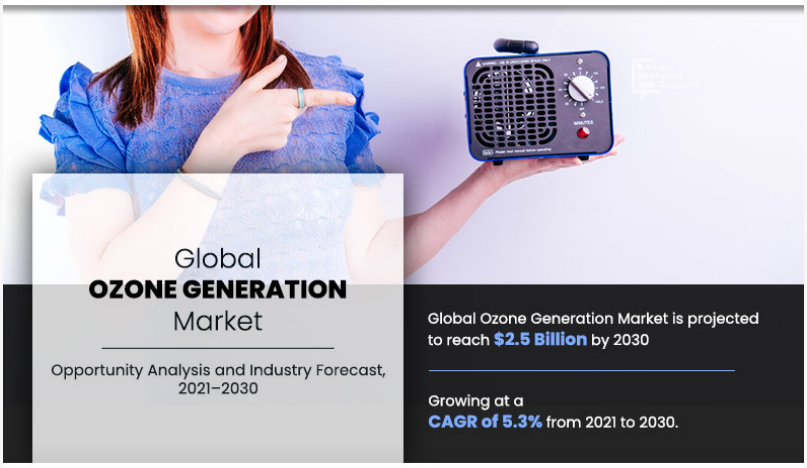
Environmental Resilience: Examining Market Trends and Future Outlook for Ozone Generation 2021-2030

Sustainability and Clean Air: Balancing Acts in the Expanding Ozone Generation Market



Ozone Generation Market Analysis

WILMINGTON, DELAWARE, UNITED STATES, December 8, 2023 /EINPresswire.com/ -- Ozone generation stands at the forefront of environmental solutions, utilizing advanced technologies to produce ozone for air and water treatment applications. This market is driven by a growing awareness of the importance of clean air and water, with ozone proving instrumental in eliminating pollutants and contaminants. Ozone's versatility extends from purifying drinking water to sterilizing air in industrial and healthcare settings. Innovations in ozone generation technologies contribute to increased efficiency and sustainability, aligning with global efforts towards environmental preservation. As industries prioritize eco-friendly practices, the ozone generation market plays a pivotal role in fostering a healthier and more sustainable future by addressing air and water quality challenges through cutting-edge solutions.

> “Growing ozone demand in medical supplies, chemical industry surge, and extensive water purification use propel the market. Diverse industry applications offer lucrative opportunities.”
>
> *Allied Market Research*

The global ozone generation market size was valued at $1.5 billion in 2020 and is projected to reach $2.5 billion by 2030, at a CAGR of 5.3% from 2021 to 2030.

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Ozone, also known as trioxygen, has the chemical formula O3 and is composed of three oxygen

atoms. Ozone gas is naturally unstable at normal atmospheric conditions, which means that in commercial applications, ozone must be made on-site using an ozone generator. The lifetime of ozone in water depends on various factors, including water temperature, ozone concentration, and the composition of the water itself. Although ozone does exist naturally, it is a relatively unstable and reactive gas. Therefore, ozone exists in the lower atmosphere at low concentrations. The greatest quantities of natural ozone are found at levels of up to 6 ppm (v/v) in the stratosphere, thus the term, the ozone layer. The natural production of ozone is by either UV radiation or lightning. As a commercially demanded treatment, there have been decades of R&D put into various methods of ozone industrial production. Today there are four recognized methods, such as corona discharge, ultraviolet radiation, electrolysis, and radiochemical source. In addition, Ozone is one of the most powerful oxidation tools used by water treatment professionals for purification and disinfection. However, the rising water treatment system may act as the major driving factor for the market.

Ozone is created from Oxygen in nature and in ozone generators for commercial or industrial applications. However, ozone quickly reverts back to molecular Oxygen. Ozone cannot be stored due to a short half-life and must be produced on-site and on-demand. Therefore, the ozone generator is the most important component of any successful ozone system. Industrial and commercial ozone applications use corona discharge ozone generators, almost exclusively.

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The Ozone Generation industry's key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

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Daikin Industries, Ltd.
Evoqua Water Technologies LLC
Electrolux
Ebara Corporation
Fuji Electric Co., Ltd.
Mitsubishi Electric Corporation
MKS Instruments
Teledyne Technologies
Toshiba Corporation
Xylem.

The ozone generation market is segmented on the basis of technology, application, end-use, and region. On the basis of technology, the market is classified into ultraviolet, cold plasma, corona discharge, and electrolytic. By application, it is categorized into wastewater treatment, air purification, medical equipment, food & beverages, and others. On the basis of end-use, it is categorized into industrial, residential, municipal, and others. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

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- On the basis of technology, the corona discharge segment emerged as the global leader in 2020 and is anticipated to be the largest markets during the forecast period.
- On the basis of application, the medical equipment segment emerged as the global leader in 2020 and is anticipated to be the largest market during the forecast period.
- Depending on end-use, the industrial segment registered the highest market share in 2020 and is projected to maintain the same trend during the forecast period.
- Region-wise, Asia-Pacific registered the highest market share in 2020 and is projected to remain dominant during the forecast period.

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