

OZONE

OZONIA

Micropollutants

WHY IS THERE A REQUIREMENT FOR NEW PROCESSES TO TREAT MUNICIPAL WASTE WATER ?

Urban waste waters are increasingly contaminated with organic substances such as biocides, endocrine disrupting compounds (EDCs), personal care products (PCPs) and pharmaceutical substances. These contaminants, with their known or potential harmfulness for aquatic ecosystems and human health, have become a major issue for the Water Utilities.

In the coming years, legislation in Europe and around the world will be tightened with regard to micropollutants in municipal waste water and to the discharge of organic substances into surface waters. Current treatment technologies in existing waste-water plants struggle to eliminate micropollutants or to limit their concentrations sufficiently to comply with the thresholds in new regulations. Thus, additional treatment processes will be required.

OUR SOLUTION TO YOUR PROBLEM

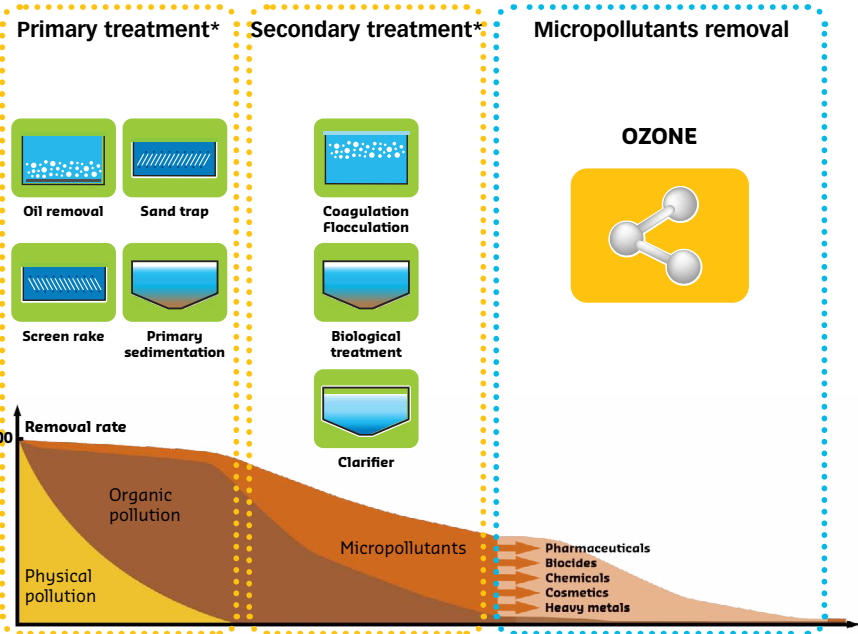
Drawing on our experience in the field of municipal waste-water treatment using oxidation technologies, OZONIA can offer the most powerful solution available on the market for the elimination of micropollutants in urban waste-water.

Ozone, due to its high oxidation potential, has been proven to be highly effective in removing persistent organics and in breaking up a wide variety of compounds. Additionally, ozonation has several welcome side effects including disinfection, water decolourisation and odours reduction. Ozone can also be used as the prime constituent in Advanced Oxidation Processes (AOPs).

Improved municipal waste-water discharges and, consequently, surface water quality can be achieved by the incorporation of an additional purification stage

TYPICAL URBAN WASTEWATER TREATMENT LINE

Integration of the ozonation system as an additional treatment step inside the WWTP



THE ULTIMATE SOLUTION FOR THE REMOVAL OF MICROPOLLUTANTS



SOPHIA ANTIPOLIS (FRANCE)

In the summer of 2012, the Sophia Antipolis wastewater treatment plant became the first French sewage plant to treat micropollutants. This plant not only preserves its direct environment, but also protects, the upstream Antibes’ drinking water source.

When the municipality resolved to enlarge and improve its sewage plant, they decided to upgrade the treatment line by including an ozone stage. Using an ozone generator, the plant now benefits from a high-performance device combining flexibility and ease-of-use. Located between the biological treatment stage and the

biofiltration stage, the ozonation treatment step fits ideally in the existing process train.

OZONIA offered a solution including a CFV-10 generator, allowing the sewage plant to adapt the ozone system to current and future requirements. In 2030, a population equivalent of 50’000 is expected (7’500 m³/day).

As the first micropollutant treatment reference in France, the municipality made a forward-looking investment perfectly framed for its sustainable development objectives.



DÜBENDORF (SWITZERLAND)

The “Neugut” water treatment plant in Dübendorf (Zürich) was one of the first Swiss pilot plants for micropollutant elimination.

After reviewing the results, the municipality choose OZONIA to supply the full-scale plant that will be build for spring 2013. This sewage plant will be the first to comply with the new Swiss regulation on trace compounds treatment.

The Neugut facilities will be designed to treat up to 1’455 m³/h, and will be supplied by OZONIA as a turnkey treatment stage.

The system will include ozone generation, dome diffusion, vent ozone destruction and instrumentation. With this innovative and forward-looking building willing to protect the receiving environment, a key cleaning-compound will be added to the “Neugut” Water Treatment Plant.

The city of Dübendorf awarded the Neugut project to OZONIA based on the extensive know-how, experience and reliability that OZONIA is known for around the world. The Neugut sewage plant will be used as a foundation for future projects in Switzerland.



MORE ABOUT OZONIA

With over 30 years experience and a unique expertise in the area of water treatment and industrial applications using ozone, OZONIA is your ideal partner for all types of pilot studies or plants.

Our Research and Development Centre is constantly working to improve our technical expertises in terms of energy efficiency, higher ozone production rates, state-of-the-art technologies and user friendly equipment.

We have the resources, experience and expertise to provide comprehensive, tailored solutions to our customers’ requirements. These include: highly-qualified engineers in all major disciplines, an in-house manufacturing facility, a knowledgeable commissioning and service staff and a responsive Customer Care team for after-sales support.

OZONIA has installed thousands of ozone generators worldwide in a wide range of applications. As one of the world’s largest suppliers of ozone disinfection systems, our satisfied customers show our commitment to quality, reliability and technical superiority.

OZONE BENEFITS

- > High oxidation potential
- > Removal of micropollutants
- > General treatment improvement
- > Low operating costs
- > User-friendly
- > Environmentally friendly

CONTACTS: www.ozonia.com

EUROPE

OZONIA Switzerland

Stettbachstrasse 1
8600 Dübendorf Switzerland
Tel: +41 44 801 85 11, Fax: +41 44 801 85 01
salesCH@ozonia.com

OZONIA France

183, Avenue du 18 Juin 1940
92500 Rueil-Malmaison - France
Tel: +33 1 46 25 66 40, Fax: +33 1 58 81 57 00
salesFR@ozonia.com

OZONIA Russia

26, Bolshaya Pecherskaya st., office 807
603155 Nizhny Novgorod, Russia
Tel: +7 831 434 16 28, Fax: +7 831 434 25 89
salesRU@ozonia.com

ASIA

OZONIA China

9F, Jing Guang Office Building
Hu Jia Lou Chaoyang District
100020 Beijing - China
Tel: +86 10 6597 3860, Fax: +86 10 6597 3660
salesCN@ozonia.com

OZONIA Japan

2-21, Mita 3-chome, Minato-ku
Tokyo 108-0073 Japan
Tel: +81 3 5444 6361, Fax: +81 3 5444 0851
salesJP@ozonia.com

OZONIA Korea

Yatap Leaders B/D 4F(408#)
342-1, Yatap-Dong
Bundang-Gu, Seongnam City
Gyeonggi-Do, South Korea
Tel: +82 31 701 90 36, Fax: +82 31 701 40 28
salesKR@ozonia.com

AMERICAS

OZONIA North America, LCC

600 Willow Tree Rd.
Leonia, NJ 07605 USA
Tel: +1 201 676 2525, Fax: +1 201 346 5460
sales@ozonia.com

INTERNATIONAL

OZONIA International Ozone

Stettbachstrasse 1
8600 Dübendorf Switzerland
Tel: +41 44 801 85 11, Fax: +41 44 801 85 01
salesCH@ozonia.com

Your local distributor:

