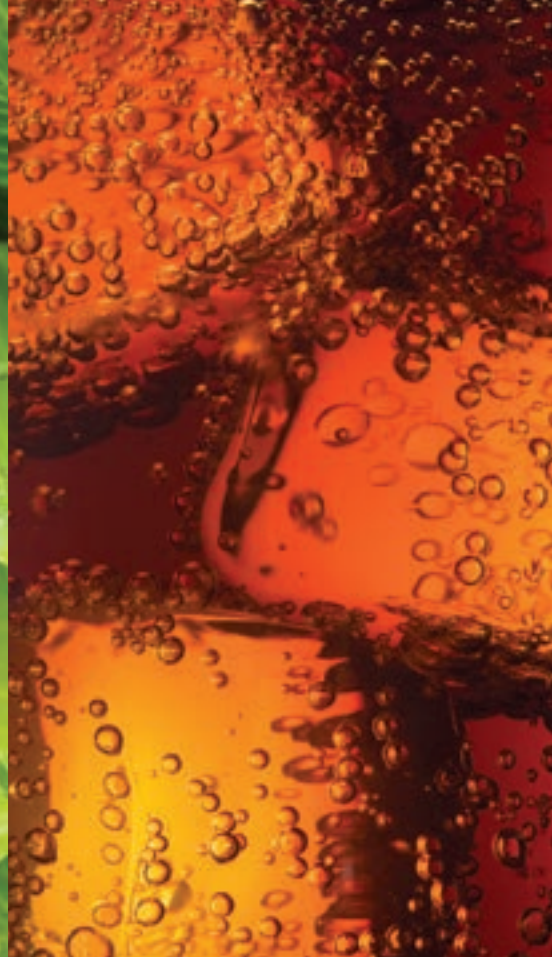




APPLICATIONS AND SUSTAINABLE WATER SOLUTIONS FOR

Food and Beverage

xylem
Let's Solve Water



Let's Solve Water

For over a century, Xylem's well-known global brands have served the water market in more than 150 countries.

Xylem Water Solutions is focused on helping our customers solve their most challenging production and compliance issues. We offer solutions across the complete water cycle that combine leading technologies to enhance water sustainability practices by treating water, transporting it to where it is needed and cleaning it to meet any effluent or reuse challenge.

In the food and beverage industry, sustainable water management reduces water and energy consumption through water reuse solutions thereby reducing the plant's environmental impact while helping companies meet their water usage ratio goals. With a commitment to providing excellent support to our customers, Xylem has the technologies to convert water challenges to business advantages while ensuring regulatory compliance and maintaining product quality.

Our market-leading brands enable the smarter use of water in various Food and Beverage markets: soft drinks, juices, bottle water, alcoholic beverages, fruits, vegetables, dairy, meat, poultry and seafood.



Extensive Experience in Food and Beverage

Xylem has the experience to tailor an optimal water treatment solution for any Food and Beverage process, balancing regulatory compliance and process efficiency. Xylem provides application and process support from the design phase through project execution and post-installation support.

Xylem process, design and manufacturing capabilities are backed by our Total Care services. Total Care alleviates unnecessary downtime with preventative maintenance options and rapid service emergency response giving you confidence that Xylem will always provide unparalleled service.



Design &
Consultancy



Installation &
Commissioning



Maintenance
Contracts



Repair &
Maintenance



Monitoring &
Supervision



Inspection &
Auditing



Plant Operation
& Maintenance



Parts &
Logistics



Rental & Onsite
Services



Asset
Refurbishments

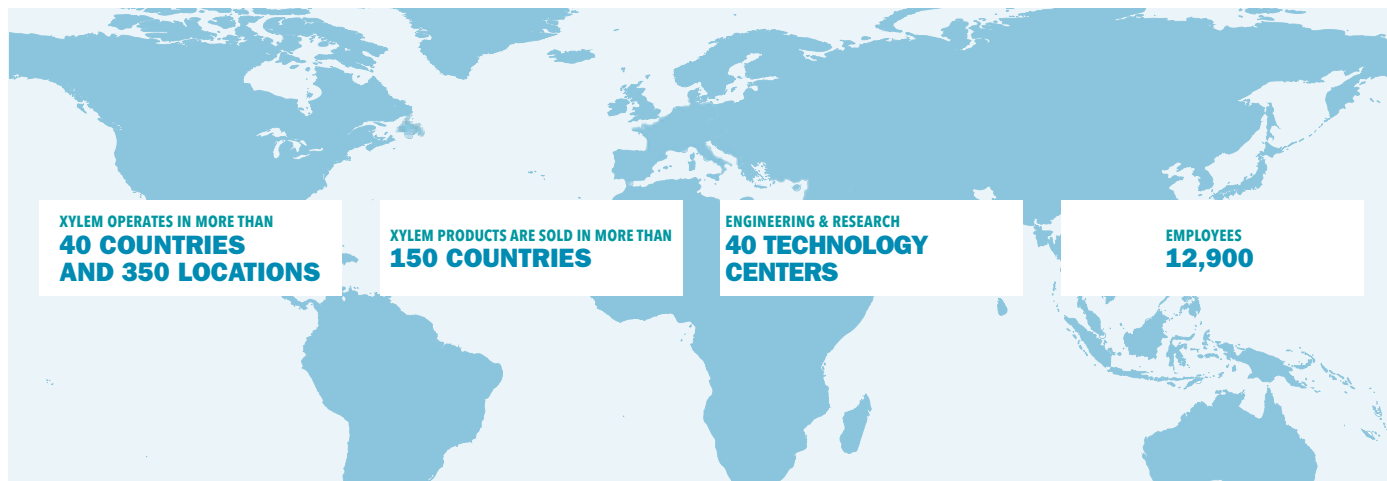


Training &
Technical Support



Financial
Solutions

Xylem's global installed base includes over 300,000 installations.



MARKETS SERVED



INDUSTRIAL
43%



PUBLIC UTILITY
35%



COMMERCIAL
11%



RESIDENTIAL
8%



AGRICULTURE
3%

XYLEM IS A PREMIUM APPLICATION SOLUTIONS COMPANY SOLVING OUR CUSTOMERS' MOST CHALLENGING WATER PROBLEMS BY LEVERAGING UNIQUE GLOBAL ASSETS AND A HIGH PERFORMING CULTURE.

Xylem brands provide best-in-class water solutions.



The world's premier manufacturer of submersible pumps, mixers and mechanical aeration equipment.

PRODUCTS

Pumps
Mixers
Mechanical Aeration



Producers of complete biological and aeration wastewater treatment solutions.

PRODUCTS

Diffused Aeration
Biological Treatment Processes
Advanced Process Controls



A worldwide leader in the design and supply of systems for filtration and clarification technology.

PRODUCTS

Gravity Media Filtration
Clarification



A premier manufacturer of ultraviolet (UV) disinfection and ozone (O₃) oxidation systems.

PRODUCTS

UV Disinfection
Ozone Disinfection and Oxidation
Advanced Oxidation



World class designers and manufacturers of custom membrane-based separation and purification solutions.

PRODUCTS

Ultrafiltration
Nano-filtration
Reverse Osmosis



Soft Drinks, Juices and Bottled Water

Whether it is biological treatment, filtration, or disinfection - Xylem has the solutions to treat incoming water supply or wastewater discharge to meet regulatory requirements while maximizing profitability.

Process water disinfection is an important step at a bottling plant in order to avoid microbial contamination in the product. The use of UV or ozone is a common treatment step since zero taste or odor is added into the product while providing a high level of disinfection.

Reducing the overall water consumption while optimizing available floor space is a continuous challenge for beverage facilities. Xylem provides standard and custom Membrane Biological Reactor (MBR) systems specifically designed for water reuse; thereby reducing water used per product produced.



Alcoholic Beverages

Xylem's pre-engineered membrane solutions are easily integrated into a plant's process. Customers benefit from Xylem's complete process warranties that provide treatment confidence. The fully automated systems require minimal operator input, thereby reducing the operating cost of the system while producing high quality effluent.

Treatment of water and wastewater may be required to meet evolving regulatory requirements in the brewing and distilling industries. Large volumes of water are required in the brewery process and waste effluents have high organic loads. As a result, water reuse is an attractive option to minimize the use of additional potable water and discharge of wastewater. Xylem provides a number of alternative solutions to fit the operating philosophy of the particular brewer or distiller. These options include Advanced Process Control, Sequencing Batch Reactor, tertiary filtration, MBR for high quality reusable effluents and validated disinfection processes.



Fruit and Vegetables

Environmental sustainability is now an important metric for customers. Water reuse is a potential option for vegetable and fruit plants that are looking for meet corporate sustainability goals and reduce the water consumption/discharge – thereby reducing operating cost.

Xylem's advanced oxidation processes (e.g. ozone combined with UV) are used to remove micro-pollutants like pesticides and herbicides.



Vegetable and fruit washing applications benefit from water reuse through Xylem's tertiary treatment technologies. For example, Xylem's UV and ozone disinfection technologies are applied to chlorine resistant microorganisms like *Cryptosporidium* and *Giardia* without concern for disinfection byproducts.



Dairy

Whether milk, yogurt, cheese or other dairy products are being produced, the dairy industry typically experiences high organic loads in the effluent stream that need to be treated prior to discharge into municipal sewage systems or receiving bodies of water. A combination of anaerobic systems followed by Xylem's aerobic biological treatment systems will reduce COD/BOD effectively while minimizing footprint and reducing maintenance through advanced process controls.

This dairy customer replaced its unreliable tubular diffusers with Xylem's membrane diffusers which features high efficiency oxygen transfer and low operating costs. The effluent had high loadings that had to be treated to meet discharge requirements.



Meat, Poultry and Seafood

Wastewater discharge limits pose a challenge for meat processing plants due to the high organics, COD and BOD in the wastewater stream. Xylem's aerobic biological treatment technologies can be utilized to bring COD and BOD into compliance while improving on-site economics.

Xylem's biological processes include industry-leading aeration and mixing capabilities with thousands of installations globally. Xylem's in-house test aeration tank allows Xylem to develop the most efficient solution. Working in conjunction with Xylem's application and process engineers, a cost-effective biological treatment process can be developed. Xylem also offers treatability studies or pilot testing in order to provide confidence in a proposed treatment solution.

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,900 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com



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