



Wastewater Solutions

SOLVING WATER CHALLENGES FOR WATER UTILITIES



As a leading global water technology company, Xylem is committed to creating innovative solutions to solve the world's water and wastewater challenges.

Water is fundamental. It sustains. Comprising 71% of the earth's surface and 60% of the human body, it's hardly surprising that so many operations require, utilise, and run on water. Yet nature is a fickle force, and water can be as challenging to a company as it is essential. Xylem's commitment to solving water challenges has made us leaders in the industry, with a breadth of knowledge and a portfolio of solutions addressing the most complex issues with H₂O.

Modernisation, upgrading, and the need to improve on all levels are the driving forces behind water utilities. Success hinges on balancing time, resources, budgets, and training. Given the complexity of today's water systems and processes, you need to build and maintain a more intelligent, connected, safe operation for your customers and employees; choosing the right partner to help you implement your strategic objectives is critical.

A new perspective on water

Our experienced team of hydroinformatics experts, monitoring and control engineers, and water/wastewater process professionals are waiting to partner with you. Together we will translate your objectives into immediate digital opportunities. Collectively we will deliver critical insights and extraordinary outcomes for your organisation and operation.

Unlock your system's full capabilities at an organisational level and deliver transformative results. Support decision-making on asset performance and process optimisation with the digital twins of data management and machine learning. Deliver real-time, reliable forecasts.

At the operational level, achieve immediate effectiveness in system management at the lowest operating cost. Secure networking solutions ensure an agnostic collection, organisation, and analysis of the data generated by your field assets. This supports your daily operation, providing relevant insights and mobility as you move forward.



Data fusion and analysis

Get real-time decision support through analytics applications that transform data into reliable forecasts and insights.



Data management

Receive and store data on site or cloud-based management systems. Benefit from agnostic data protocols, data cleansing and organisation by data analytics applications.



Data collection and communication

Gain local data collection, storage and transmission to Xylem and industry standard systems, and bi-directional communication for instrument control.



Sensing and control

Network and process instrumentation, control and automation.



Physical assets

Network and treatment pump and process equipment.

Solutions across the wastewater cycle

We partner with you to drive improvements across the wastewater cycle. Our innovative solutions and smart technology solve your toughest challenges while conserving resources, optimising asset reliability, and making your communities more resilient and sustainable.



Wastewater network

Intelligent pipeline and pumping condition assessment services to minimise flood risks.



Wastewater pumping and mixing

Access to leading global smart pumping and mixing technologies that deliver the most TOTEX efficient solutions across all wastewater, stormwater and biosolids arenas.



Wastewater analysis

A full range of water quality analysis equipment for all wastewater needs.



Aeration diffuser systems

A diverse range of air diffusers and high efficiency air blowers for full biological treatment.



Clarifiers and filtration

A selection of enhanced footprint secondary clarification processes and tertiary filtration technology.



UV disinfection and advanced oxidation

Proven technology that provides fast and efficient inactivation of microorganisms for full disinfection of sensitive waters. Remove micropollutants, odour and colour to safeguard the environment.



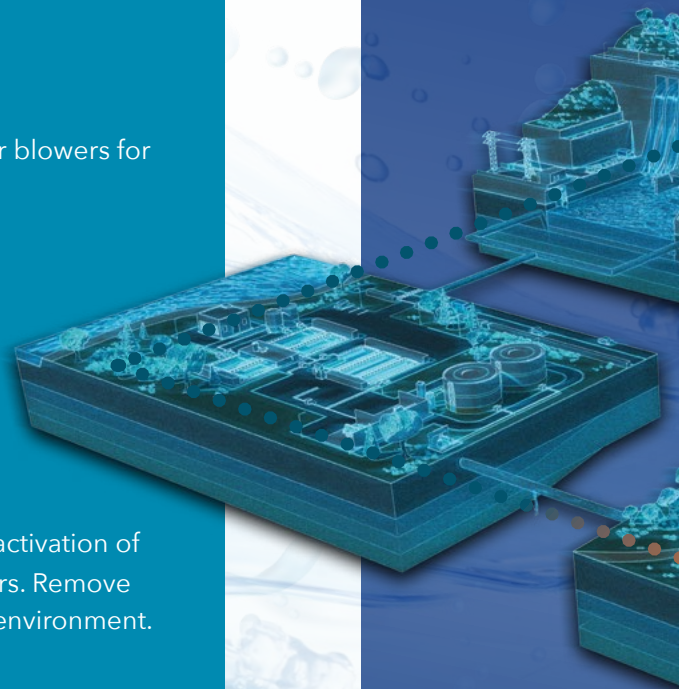
Monitoring and control

Monitoring and control products to help you control and learn 24-7 from the assets.



Digital optimisation platforms

A suite of treatment and network optimisation platforms to minimise energy, chemical usage and process emissions. Digital BIM embedded in all developed solutions.



Wastewater treatment

High efficiency aeration systems

Adaptive storm tank and anoxic tank mixing systems

Secondary and tertiary solids removal systems

Treated wastewater quality monitoring

Advanced wastewater treatment technology (UV and advanced oxidation)

Wastewater treatment process optimisation

Wastewater pumping stations

Wastewater network management

Concertor smart pumps

Preventative and predictive maintenance platforms

Service level support packages

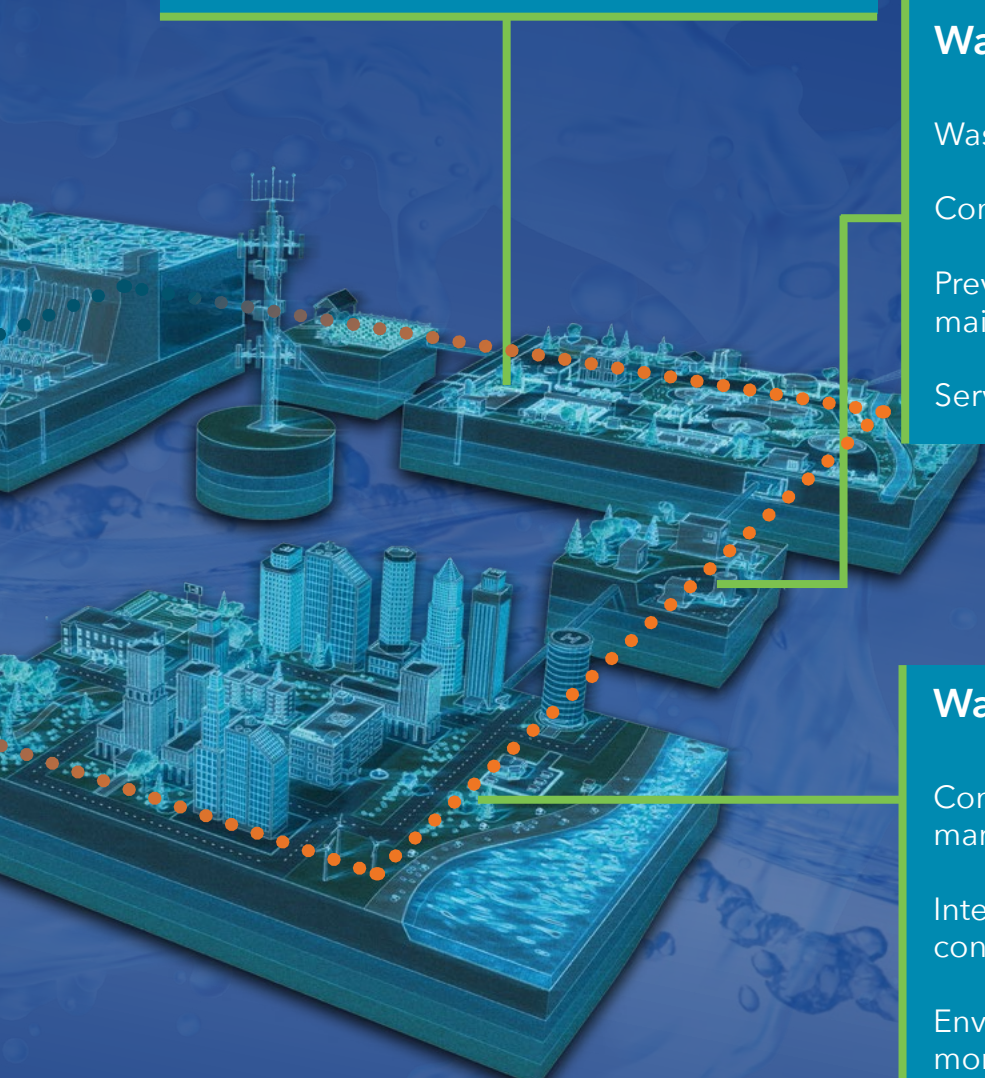
Wastewater infrastructure

Combined sewer overflow management

Intelligent pipeline and pumping condition assessment services

Environmental water quality monitoring

Emergency flood management digital network optimisation



Solving customer challenges

Water and wastewater experts

Xylem solves customer challenges by combining its world-class solutions with the power of an innovative data and analytics platform. We're creating bold new ways to help you strengthen, optimise, and drive major new efficiencies across your operations.



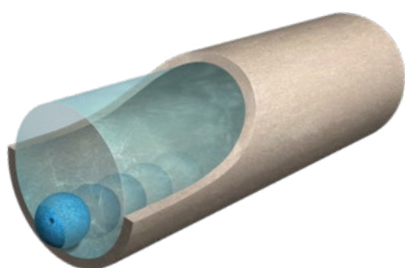
AGEING INFRASTRUCTURE

Challenge

Utilities have significant buried assets and need to effectively assess and identify high-risk areas for repair and replacement before problems occur.

Solutions

Xylem's intelligent pipeline and pumping critical infrastructure services perform condition assessment, identify defective assets, provide rental services and replacement technologies, reduce or eliminate combined sewer overflows and minimise sewer flooding incidents.



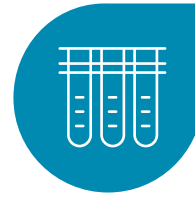
STORMWATER & FLOODING

Challenge

Significant increase in severe weather patterns is causing flooding and related damage to communities.

Solutions

Xylem's stormwater and flood management solutions include sensors and analytics for early warnings, smart submersible pumping for resilient infrastructure, digital optimisation for network system and data communications for recovery.



WASTEWATER REGULATORY COMPLIANCE

Challenge

Utilities must successfully comply with a growing body of compliance regulations.

Solutions

Xylem's range of technologies treat wastewater to meet regulatory standards, while our analytics, sensors and digital platforms monitor and optimise a broad range of water quality parameters to safeguard our environment.





OPERATING STRATEGY REDUCING ENERGY COSTS

Challenge

Utilities need to lower operating and energy costs, and leverage new revenue stream opportunities.

Solutions

Xylem offers industry-leading pumping and treatment solutions for energy efficiency, and software-enabled solutions to optimize operations and identify revenue savings.

SUSTAINABILITY & NET ZERO

Challenge

Utilities have set ambitious Net Zero targets for 2030 that require innovative thinking.

Solutions

Xylem innovation programmes deliver a range of technologies and digital solutions to both treat wastewater to meet all regulatory standards and analysers / sensors to help measure and monitor all process emissions to deliver sustainable outcomes for the environment.

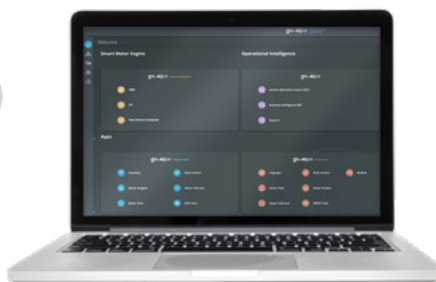
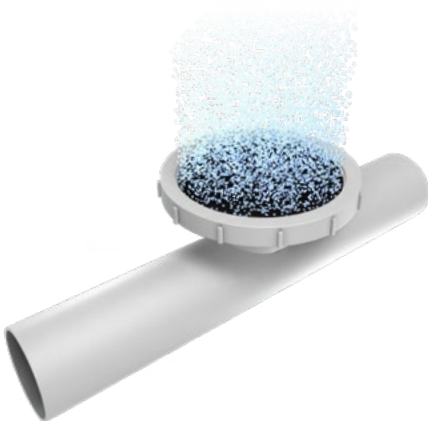
ENVIRONMENT ACT & WATER QUALITY

Challenge

Utilities must continuously monitor the quality of water upstream and downstream of an asset, where the storm overflow or treatment works discharge into a watercourse.

Solutions

Xylem have worked with the Environment Agency for over twenty years as a supplier of Water Quality Sondes to safeguard our water bodies. Xylem delivers this technology in alignment with spatial water quality and our expert understanding of mixing and dilution affects to identify the correct site selection.



Xylem |'zīləm|

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

We're a global team unified in a common purpose: creating advanced technological solutions to the world's water challenges. We're dedicated to developing new technologies to improve the way water is used, conserved, and reused in the future. Our products and services move, treat, analyse, monitor, and return water to the environment in public utility, industrial, residential, and commercial building services settings.

Xylem also provides a leading portfolio of smart metering, network technologies, and advanced analytics solutions for water, electric, and gas utilities. We have strong, long-standing relationships with customers in over 150 countries. Xylem is known globally for our powerful combination of leading product brands and applications expertise, with a strong focus on developing comprehensive, sustainable solutions.

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