



Water Utilities

SOLVING WATER CHALLENGES ACROSS THE WATER CYCLE

Let's Solve Water in Asia



Xylem is a leading water technology company committed to solving water by creating innovative and effective solutions to meet the world's water and wastewater challenges. Every day, we focus on harnessing the expertise and commitment of our teams to help make water safer, more accessible and more affordable for people and communities around the world.

We deliver a comprehensive suite of solutions to efficiently transport, treat and analyze water at every stage of the water cycle. Working together, we are united in our purpose of creating both economic and social value.

xylem **vue**



Our full portfolio of digital solutions, Xylem Vue, empowers utilities to unlock data-driven insights wherever you are in your digital journey, and delivers greater visibility, performance, compliance and remarkable cost savings. To learn more, visit xylem.com/xylemvue.

xylem watermark

Because Every Drop Counts



In a world where millions of people lack access to safe drinking water and basic sanitation, we are using our expertise and technologies to make a difference.

Xylem Watermark is our corporate citizenship and social investment program that aims to provide and protect safe water resources for communities in need around the world and to educate others about pertinent water issues.

Provided water and sanitation solutions for **4.7 million**



Educated **3.9 million** on WASH and the Value of Water

People outreach statistics from 2019 to 2020

To learn more about Watermark, visit xylemwatermark.com.



World-class Support and Expertise Across Applications



Sales and Technical Support

Xylem has several branches throughout Asia that meet local customer needs, maintaining the high standards of innovation, manufacturing and long-term service that embody the Xylem brand.



Project and Service Management

Submissions of detailed drawings, system calculations and product documentation for tender, project approval and on-site project installations are handled by our dedicated team.



Aftermarket Services

Our trained service engineers offer commissioning, on-site product testing, and in-house repair services. In selected countries, fleets of Xylem service vehicles are on standby to answer urgent troubleshooting requests. Accredited service workshops are also available.



Desalination & Water Treatment



Stormwater Pump Stations & Flooding Relief



Potable Water Pumps & Drinking Water Treatment Systems



Municipal Wastewater Pumping & Treatment



Wastewater Recycling & Reuse

Municipal / Utility Map

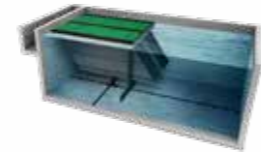
PRECIPITATION



GROUND RIVER RESERVOIR

Water Treatment

Integrated solutions including advanced filtration, chemical-free disinfection and more to produce high-quality drinking water.



Leopold Texler Lamella Clarifier



Wedeco UV System

Desalination

Robust desalination pretreatment processes remove harmful algae blooms and contaminants to prepare water for reverse osmosis.

Commercial & Residential Buildings Industrial Estates



Sensus iPERL Smart Meter

Water Transfer

Reliably transport water with highly efficient pumps. Accurately measure water consumption and detect leaks with smart water meters, and easily retrieve data for billing and analysis.



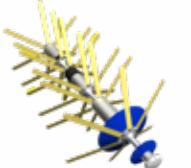
e-SV Series

Pipeline Management

Reduce non-revenue water, map pipeline networks and assess their condition.



SmartBall Inline Leak Detection



PipeDiver Assessment Tool



Cordone Ultrasonic Bulk Meter

Flood & Storm Water Management

Reliable pump systems that competently handle high volumes of water even in tough operating conditions, minimizing floods and damage to infrastructure. Anticipate and react swiftly to floods with real-time monitoring and early warning systems.



Flygt Submersible Pump

Land Irrigation

Complete pumping network for irrigation, with disinfection solutions to improve water quality.



Flygt MultiSmart® Controller

Wastewater Treatment

Effective disinfection, clarification, filtration and aeration systems along with powerful non-clog pumps facilitate smooth physical, chemical and biological treatment processes.



Wedeco Ozone Systems

Sea

Steady water management solutions to keep excess stormwater and seawater in check.

Segment Application Matrix

Brands / Products		Flygt			Flygt Bell & Gossett Goulds Water Technology	Lowara			Leopold			Wedeco	Sanitaire	Sensus	Pure Technologies	MJK SonTek WTW YSI Global Water ebro Aanderaa OI Analytical SI Analytics	Xylem Decision Intelligence Solutions
		Smart Pump + Controller	Custom Pumps	Mixers	Vertical Turbine Pumps and Surface Pumps	End Suction Pumps	Multistage Pumps	Vertical Multistage Pumps	Lamella Settler	Sludge Collector	Underdrains	Ozone System / UV System	Diffusers & Blowers	Water Meters	Pipeline Assessment Solutions	Instruments / Analyzers	Digital Optimization Solutions
Category / Application																	
Storm Water Management	Raw Water Transfer	•	•														
	Dewatering	•															
Land Irrigation	Raw Water Transfer	•	•														
	Measurement of Water Volume												•				
	Disinfection										•						
Raw Water Source and Transfer	Raw Water Transfer	•	•		•												
	Prefab Pumping Station	•															
Water Treatment	Headworks Lifting Pumping	•	•		•												
	Clarification							•	•								
	Filtration								•								
	Bio-filtration								•								
	Disinfection										•						
	Transfer Pumping	•					•	•									
	Membrane Feed Pumping				•		•	•									
	Media/UF/MF Backwash Pumping				•	•											
	UF/MF CIP Pumping				•	•											
	Sludge/Slurries Transfer	•															
Desalination	RO Feed Pumping				•	•											
	UF/MF CIP Pumping				•	•											
	Disinfection										•						
	Media/UF/MF Backwash Pumping				•	•											
	Brine Backwash Pumping					•											
All Categories Above (except Land Irrigation and Raw Water Source and Transfer)	Data Analytics & Optimization																•
	Measure and Analyze Water Quantity Profile (Flow, Level/Depth, Velocity) and Water Quality Parameters															•	

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Category / Application																	
Potable Water Network	Drinking Water Transfer						•	•									
	Monitoring of Network												•				
	Metering & Billing												•				
	Measure and Analyze Water Quantity Profile (Flow, Level/Depth, Velocity) and Water Quality Parameters												•		•		
	Pipeline Assessment and Monitoring														•		
Wastewater/ Water Reclamation Treatment	Aerobic Process												•				
	Aerobic + Anoxic Process			•									•				
	Anoxic Process			•													
	Denitrification Filters									•							
	Disinfection										•						
	Primary Sludge Transfer	•															
	Secondary Sludge Transfer	•															
	Effluent Wastewater Transfer	•															
	Raw Wastewater Transfer	•															
	Sludge/Slurries Transfer	•															
	Aerobic Digestion			•													
Wastewater Network	Wastewater Transfer	•															
	Prefab Pumping Station	•															
	Pumping Station	•	•														
	Pipeline Assessment and Monitoring														•		
ReUse Water Network	Product Water Transfer				•		•	•									
	Pipeline Assessment and Monitoring														•		
	Measure and Analyze Water Quantity Profile (Flow, Level/Depth, Velocity)												•		•		
All Categories Above	Data Analytics & Optimization																•
	Measure and Analyze Water Quantity Profile (Flow, Level/Depth, Velocity) and Water Quality Parameters														•		



Keppel Marina East Desalination Plant

Case Study

Effective UV Disinfection of Seawater RO Permeate at First Large-scale, Dual-mode Desalination Plant

Customer

PUB, Singapore's National Water Agency

Country: Singapore

Year of Installation

2020

The Challenge

Singapore's fourth desalination plant is a water treatment facility that can treat both seawater and freshwater. PUB needed a solution that could handle the disinfection of seawater reverse osmosis permeate, provide optimal operations and have a smaller footprint than a conventional chlorine disinfection system.

The Solution

Xylem installed:

- 9 Wedeco Spektron® 4000e UV systems with EcoTouch 6 controls

The Results

The UV system ensures optimal disinfection performance independent of the current inlet water situation. The plant supplies up to 137,000m³ (about 30 million gallons) of water each day, strengthening Singapore's water supply resilience.



Wedeco Spektron UV system

Read the full case study:



Tan Hiep Water Treatment Plant

Case Study

Reliable Clean Water Supply with First Ozone Treatment Plant in Vietnam

Customer

Saigon Water Corporation

Country: Vietnam

Year of Installation

2016

The Challenge

Ho Chi Minh City's main sources of water for its 12 million population – the Dong Nai and Saigon rivers – are often polluted with discharge from multiple places, including hospitals and garbage dumps. Saigon Water Corporation brought Xylem in to work on an expansion of the Tan Hiep Water Treatment Plant. The expanded plant draws water from the Saigon river and plays a crucial role in ensuring access to clean water.

The Solution

Xylem installed:

- Wedeco SMOevo ozone system with Effizon® evo 2G electrode technology
- Leopold Type S Underdrain gravity media filtration system with I.M.S® 200 media retainers

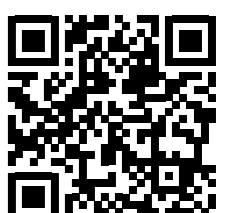
The Results

The water treatment plant can now produce 300,000m³ of drinking water each day, benefitting 1.5 million Ho Chi Minh City inhabitants. Water treated through oxidation doesn't create harmful by-products or residues, compared to chlorine technology and traditional filtration.



Wedeco SMOevo ozone system

Read the full case study:





Case Study

First-of-a-kind Tunnel to Manage Flood Water in Kuala Lumpur

Customer

City of Kuala Lumpur

Country: Malaysia

Year of Installation

2007

The Challenge

Kuala Lumpur suffered from frequent flash floods, and Xylem was brought in to find a solution, as part of the \$600 million 'Storm Water Management and Road Tunnel' (SMART) project commissioned by the Malaysian Government.

The city is highly dense, and they needed a solution that didn't involve constructing large drains and extensive pipe work criss-crossing the city. Widening or deepening rivers was also not an option. As land is expensive, going underground had to be seriously considered.

The Solution

Xylem installed:

- 16 SonTek Argonaut acoustic Doppler current meters
- 76 Flygt pumps for dewatering



Xylem's Flygt pump (left) and SonTek Argonaut XR. The pumps are capable of dewatering all floodwater in the tunnel within 24 hours.

The Results

The award-winning tunnel has been successfully diverting flash floods in the city since it opened in 2007. It has also received several international engineering awards for its innovation and functionality.

Read the full case study:



Case Study

Robust Wastewater Management at Singapore Island Resort

Customer

Sentosa Development Corporation

Country: Singapore

Year of Installation

2019

The Challenge

Designed in the 90s, Sentosa's complex pumping system and its programmable logic controller (PLC) algorithm was no longer fully suited for its current application. There was no monitoring controller in the pumping system and several pumps also had to be overhauled.

The Solution

Xylem installed and commissioned three water and wastewater solutions:

- Flygt MultiSmart® monitoring and control system
- Flygt N-pumps
- MJK Shuttle® ultrasonic level transmitters

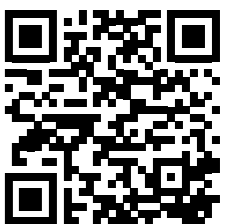
The Results

The combined solutions helped to reduce floating scum, minimize odor and prevent clogging across 11 pumping stations on the island. Energy bills are lower and unplanned maintenance costs are reduced. Sentosa was also able to identify the root cause of a flash flood, enabling it to be rectified quickly.



Flygt N pumps installed in pump station (dry installation).

Read the full case study:





Case Study

Advanced Analytics Solutions Improve System Reliability and Prolong Life of Infrastructure Assets

Customer

Air Selangor
Country: Malaysia

Year of Installation

2018

The Challenge

Air Selangor, a large water distribution company owned by the Malaysian state of Selangor, had concerns about its aging infrastructure and was looking for proactive ways to lower their non-revenue water (NRW) rate by reducing leak runtime and identifying the sources and causes of harmful pressure transients within their network. In one particular case, Air Selangor had noticed repeated leaks on the same pipelines and began actively searching for innovative continuous monitoring solutions to help them identify leaks and pressure surges earlier, reduce NRW and improve customer relations.

The Solution

Air Selangor partnered with Xylem to develop a long-term, state-wide monitoring program to improve asset reliability and resiliency. The Xylem Water Loss Management platform provides real-time monitoring for leaks, pipe bursts and pressure surges.

The Results

500 sensors were successfully deployed in the first year with 65 major leaks and bursts identified and repaired. The program continues today, with new sensors brought into operation daily - 1,600 and counting as of January 2021. Data collected provided important insights into the network's operations including the nature and distribution of trunk main leaks, and operational issues related to pump changeovers, allowing Air Selangor to implement interventions to prevent premature failure of assets across their system.



Image shown is a representation of the Xylem Water Loss Management single-portal interface.

Read the full case study:



Working Together Towards a Zero-carbon Future

Our solutions leverage on high-efficiency technologies to reduce emissions across clean water and wastewater activities.



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 technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, 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. 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 with a strong focus on developing comprehensive, sustainable solutions.

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

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