xylem
Let's Solve Water

Sustainability Memo

Decarbonizing Water: Today's Technology for a Carbon-Free Tomorrow

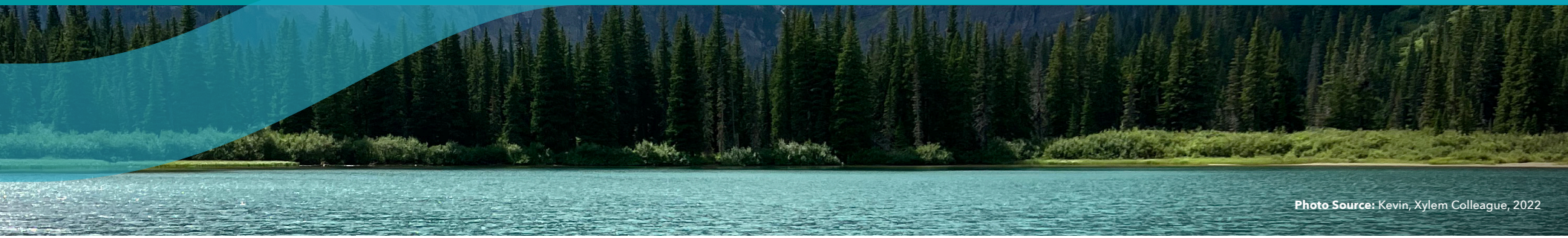


Photo Source: Kevin, Xylem Colleague, 2022

Mitigating and adapting to climate change is a challenge and an opportunity.

Water and wastewater utilities make up ~2% global greenhouse gas emissions, providing a unique opportunity for the water sector to lead global decarbonization efforts with the use of existing technology.

Xylem supports its clients to reduce their carbon footprint by **decarbonizing our own** operations and providing high-efficiency technologies to solve water management challenges with low operation emissions.

At Xylem, more than 95% of our emissions lie in the use of products, or Scope 3 Category 11. **Partnering with our customers not only supports their operations but is essential to reaching our own goals.**

We partner with our customers by providing transparency into our emissions data and sustainability commitments. Life Cycle Assessments (LCAs) help us understand the full scope of our products' impacts, from the raw materials used in their development to their end-of-use. As we expand our capabilities to perform LCAs, we encourage our customers to request **our Enterprise-specific Emission Factor Intensity provided in Kg of CO_2-equivalent per dollar spent on Xylem solutions.** This enables our customers to gain accuracy in their carbon accounting with business-specific activity data and plan for emission reduction in their value chain, reducing their Scope 3 emissions.

Leading the Way to Net Zero in Our Operations

88%
of electricity came from renewable sources in 2022

80%
of our European vehicle orders in 2022 were for fully electric vehicles or electric hybrid vehicles

~1/3
of our global suppliers report on their scopes 1 & 2 GHG emissions in 2022

Our Journey to Net-zero

Today
21% decrease
in net Scope 1 and 2 emissions from 2021 to 2022

By 2030
Reach emissions reduction in-line with
1.5 °C
science-based target

By 2050
Achieve
net-zero
emissions across our value chain.

More details and data on our renewable energy use, electric fleet and work across our supply chain can be found in our 2022 Sustainability Report

Learn more at xylem.com/en-us/sustainability/

Partnering to Decarbonize the Water Sector

The water sector is primed to lead the global Race to Zero.

All main operational emission sources of our customers can be mitigated with Xylem's deep expertise and comprehensive technology architecture that includes equipment, service maintenance and holistic digital solutions.

Real-time decision-making optimizes the use of existing infrastructure, which reduces the need for new construction, and mitigates excessive chemical use, ultimately addressing two of the largest sources of Scope 3 emissions for water service providers.

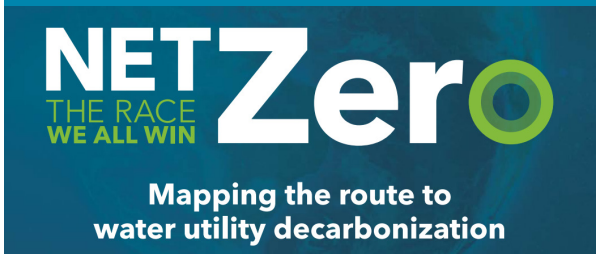
Decarbonization solutions also reduce water losses and cut costs, streamlining operating processes while making them safer and more resilient.

Decarbonizing the Water Sector

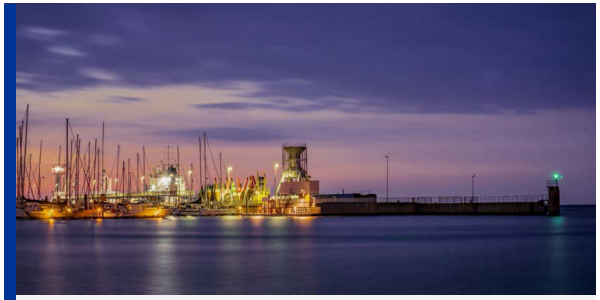
- "Net Zero: The Race We All Win" details how utilities can make meaningful reductions to their GHG emissions.
- Existing technology can provide substantial energy reductions, with further innovation possible for comprehensive decarbonization of the water sector.

From cover of Xylem 2022 white paper "The Race We All Win"

Source: Global Water Awards, 2022



In Scottish Water, Intelligent wastewater pumping systems enables **reduction of energy use by up to 40%** and of service attendance visits by close to 99%



Plant real time decision support – like in Cuxhaven – uses data for optimization of existing processes and **minimization of energy use by up to 26%** in their wastewater Treatment plant.

At India's Presidential Estate, UV disinfection solution enables **80% of the water to be reused** for green areas and wetlands while **reducing energy use by up to 50%**

City of Walla Walla, WA, **reduces non-revenue water by 50%** with Advanced Metering Infrastructure

Reach us at
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