

Veolia's technologies set to transform wastewater into resources at historic Belgian brewery

- This project emphasizes sustainable resource management, applying **circular economy principles to optimize biogas valorization and water reuse, that are an integral part of Veolia's GreenUp strategic plan.**
- Advanced Veolia proprietary technologies will **enable 70% water reuse, saving a volume of freshwater equivalent to the annual consumption of close to 3,000 Belgian residents.**
- The high-quality biogas produced represents **a green source of renewable energy** used to heat water processes and buildings, creating a sustainable energy recovery cycle that **annually prevents the emission of 548 tons of CO₂.**

[Veolia Water Technologies](#) has been chosen by the Omer Vander Ghinste Brewery for the expansion of the wastewater treatment plant (WWTP) at its historic brewery close to Kortrijk, Belgium. Since 1892, Brewery Omer Vander Ghinste has been a fixture in Belgian brewing. The brewery is now focusing on sustainable growth, balancing expansion with responsible practices.

Veolia's extension of the WWTP is designed to support the brewery's growing operational needs while significantly reducing its environmental footprint. The comprehensive upgrade incorporates advanced technologies, including a [ZeeWeed™ 500](#) membrane bioreactor system, anaerobic [Biobed® Advanced EGSB](#) and [CaptuRO™](#), a high-recovery reverse osmosis system.

The bio-factory concept, where wastewater is transformed into valuable resources, is at the heart of this project. Veolia's EGSB technology plays a pivotal role in producing high-quality biogas from wastewater. This green source of renewable energy is subsequently processed and used to heat water and buildings, creating a sustainable energy recovery cycle that annually prevents the emission of 548 tons of CO₂.

Furthermore, the advanced CaptuRO technology ensures that 70% of the water used in the brewing process is efficiently and securely recycled and reused for cooling water, bottle washing and cleaning of vessels, saving a volume of freshwater equivalent to the annual consumption of close to 3,000 Belgian residents. This approach not only minimizes waste but also exemplifies Veolia's vision for a circular economy in the industrial sector.

Anne Le Guennec, Senior Executive VP for Worldwide Water Technologies at Veolia, commented: "We are very proud to collaborate with the historic Omer Vander Ghinste brewery on this project that perfectly illustrates how our advanced technologies can improve both the sustainability and efficiency of an industrial site. By allowing 70% of water reuse and creating a renewable energy cycle, we demonstrate that ecological innovation can go hand in hand with operational efficiency, in connection with our GreenUp strategic plan."

ABOUT VEOLIA

Veolia group aims to become the benchmark company for ecological transformation. Present on five continents with nearly 218,000 employees, the Group designs and deploys useful, practical solutions for the management of water, waste and energy that are contributing to a radical turnaround of the current situation. Through its three complementary activities, Veolia helps to develop access to resources, to preserve available resources and to renew them. In 2023, the Veolia group provided 113 million inhabitants with drinking water and 103 million with sanitation, produced 42 million megawatt hours of energy and treated 63 million tonnes of waste. Veolia Environnement (Paris Euronext: VIE) achieved consolidated revenue of 45,351 million euros in 2023. www.veolia.com

ABOUT VEOLIA WATER TECHNOLOGIES

As the global water technology experts of Veolia, we deliver on both performance and sustainability without compromise. We provide you with peace of mind knowing your business and communities are safeguarded, efficient and resilient. Together we protect, preserve and reuse resources, tackling today's environmental challenges while creating the water treatment and process solutions of tomorrow. www.veoliawatertechnologies.com

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