

Industrial wastewater reuse systems

Spacedrip is an Estonian tech company with a vision for healthy and sustainable use of Earth's most vital resource – **water**

Founded in 2020 – Spacedrip has developed systems that provide wastewater treatment and water reuse systems for defence, emergency, industrial sectors, and off-grid and urban communities.

Our goal is to build water resilience by **decentralizing water management** with onsite water reuse



Water challenges for the industrial sector

Stringent Regulations - Navigating complex environmental compliance standards.

Excessive Water Consumption - Inefficient processes lead to significant water waste.

High Water Prices - Escalating costs amplify the impact of water inefficiency.

ROI Challenges - Demonstrating favourable returns for wastewater projects.



Water solutions for the industrial sector

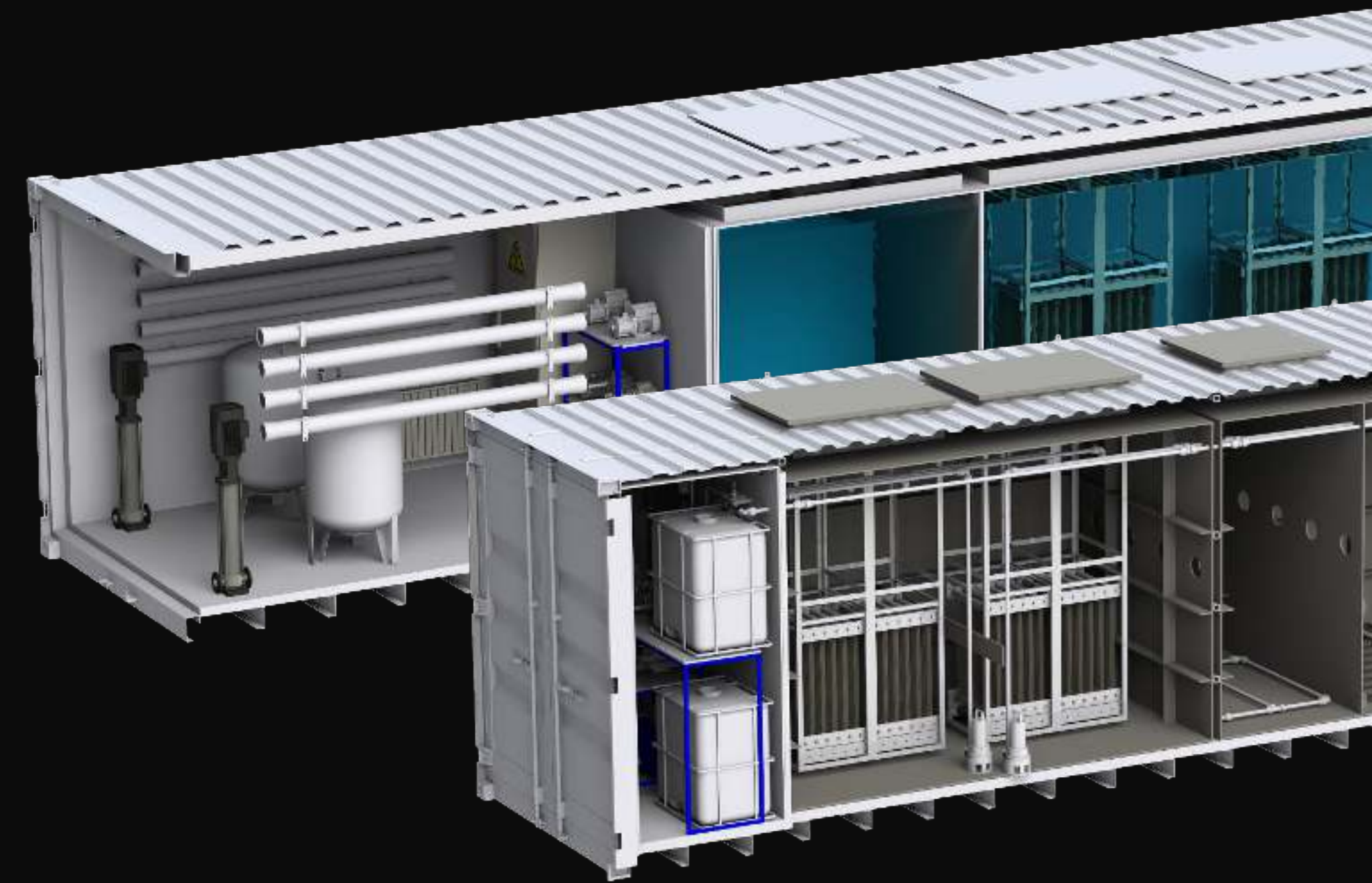
Energy-Efficient Operation - Minimizing consumption for cost savings, environmental responsibility, and effective water reuse

Long-Term ROI Potential - Demonstrating a compelling average ROI of 3 to 7 years with Spacedrip systems.

Compact Design - Efficiently designed for space optimization without compromising performance.

Containerized system - Containerized systems are easy to transport and deploy.

Predictive maintenance - Stay informed with real-time monitoring features, ensuring optimal system performance and facilitating proactive maintenance when needed



ESG Benefits of Spacedrip Industrial Product Line

Water Risk Management - improved control of water production enables better mitigation of water quantity and quality risks.

Cost Savings - Minimizes costs associated with water procurement, disposal, and energy consumption, offering financial benefits alongside environmental impact

Regulatory Compliance - Ensures adherence to EU water and discharge regulations, preventing potential fines and legal issues

Data Transparency and Quality Standards - Provides detailed monitoring for accurate ESG reporting and maintains high water quality standards, enhancing safety and sustainability credibility



Technology

Improved wastewater treatment technology paired with advanced sensors, user-friendly software and **automation** for more efficient results.

Robotized treatment processes **reduce energy demand and maintenance needs by up to 70%** compared to traditional wastewater treatment plants.

Our core technology is **aerobic membrane bioreactor (MBR)**. Wastewater is treated with activated sludge, and water is filtered to solid-free permeate with microfiltration membranes with a pore size of 0.2 μm .

An additional automated **reverse osmosis module** with a disinfection module is used when treated water is reused for potable applications.

The technology is fitted in on-ground or underground tanks and containers by Spacedrip or by Spacedrip's partners.



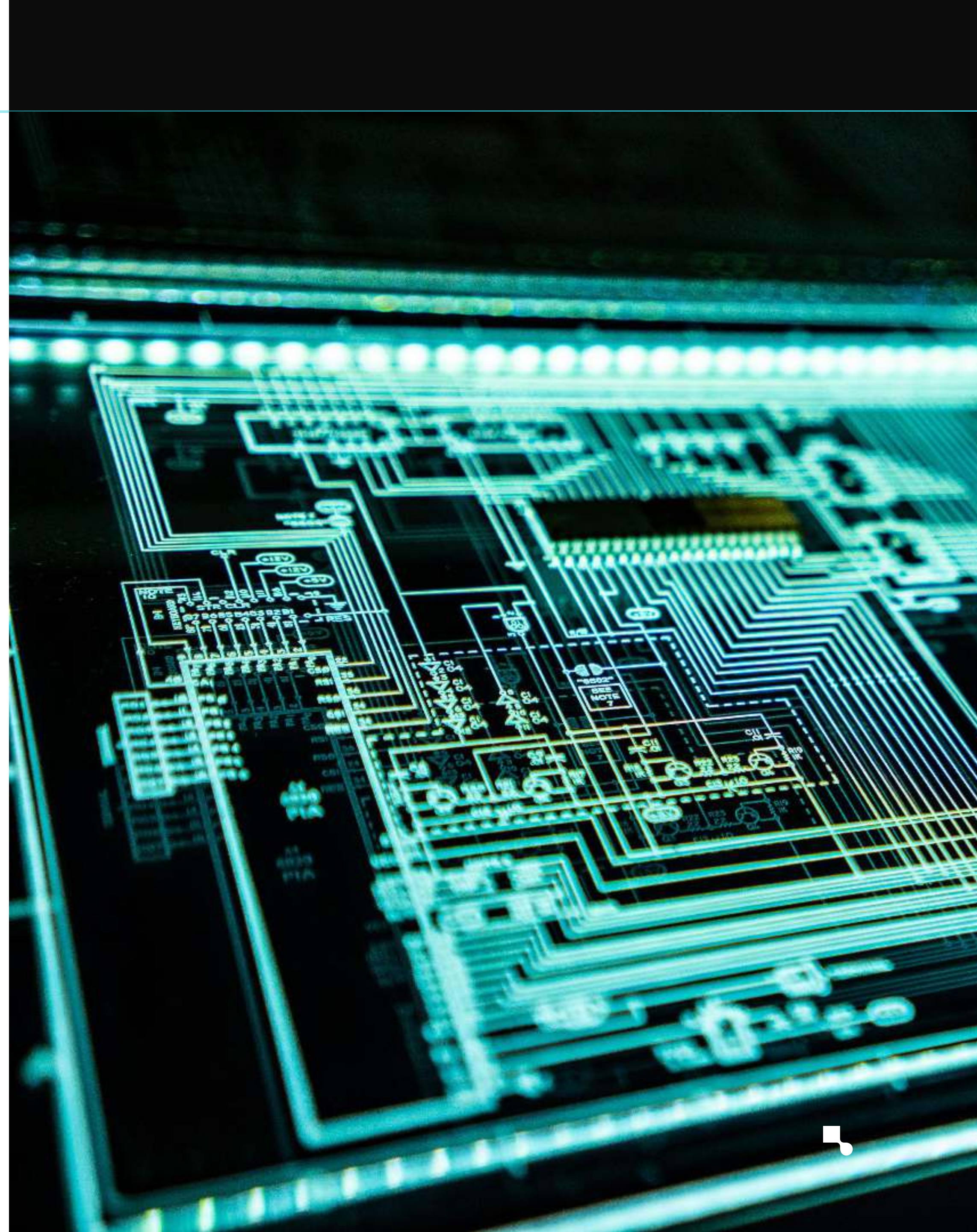
Automation

Biological processes such as activated sludge and membrane control, aeration and nitrogen removal are optimized for best performance.

Automation extends equipment lifespan, reduces maintenance downtime and guarantees high water quality through **real-time monitoring**.

Immediate notifications for error alerts and maintenance enable **predictive maintenance**, avoiding long-term high costs.

The system adapts automatically to wastewater inflow **fluctuations** avoiding human intervention.



Support

Spacedrip supports its partners throughout the product life-cycle.

Maintenance and operations training is provided for maintenance partners and customers.

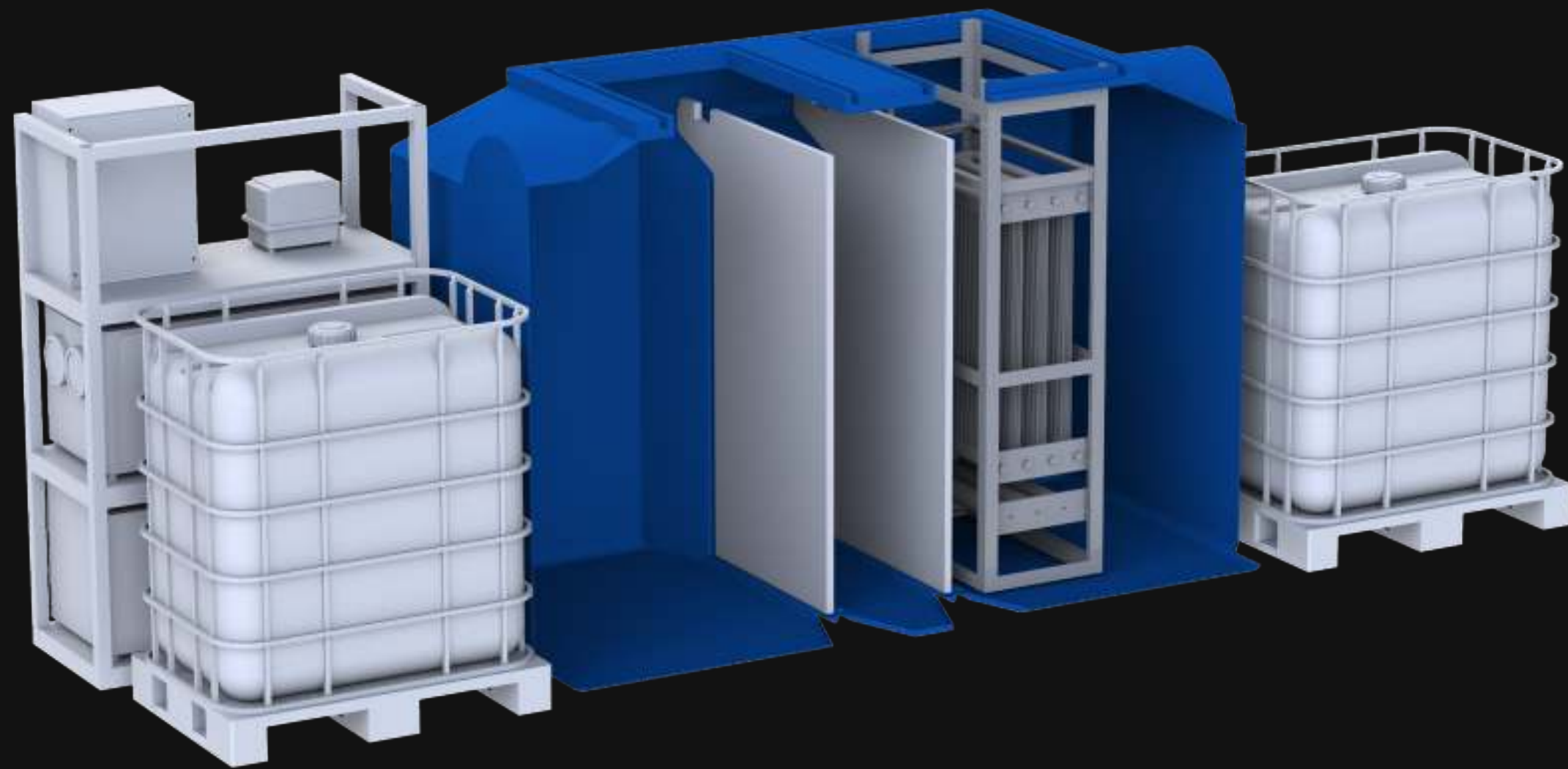
Online operating and distance support is available to local maintenance partners.

Depending on system size, 2-5 onsite maintenance visits per year by a local technician are required.

Predictive maintenance is based on software forecasts.



Papermill



01 Use case

Wastewater treatment was insufficient and no water reuse solutions in Rappin paper edge protector production

A containerized system was implemented for wastewater treatment and water reuse. The pilot system treats and reuses up to 1.5 cubic meters of wastewater per day

Spacedrip is going to offer a full-scale solution to treat and reuse up to 240 cubic meters of wastewater per day, installed into 5 pcs of 40ft containers

Spacedrip provides pilot systems for industries to test before full-scale projects



Brewery



02 Use case

The aim is to achieve brewery ESG targets by reducing water consumption

An all-in-one system housed within a 40ft container with MBR and reverse osmosis technology was implemented

Automated process management through advanced sensors and software

Treated water is used for tank cleaning, filter washing, and can rinsing operations.

The system treats and reuses up to 97 cubic meters of wastewater daily



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