

Water Reuse



Reducing water intake and disposal improves your environmental and financial sustainability.

Water Reuse

Water scarcity is no longer a future concern; it is already impacting industrial operations worldwide. Population growth, climate change, and urbanization are placing increasing pressure on freshwater availability, while access to reliable and affordable water is becoming less predictable.

As a result, **water scarcity** is no longer just a sustainability issue, it is becoming a core business risk. **Business continuity** can be affected by limited or unreliable water access. **Rising water costs** create direct financial pressure, while growing environmental awareness and scrutiny increase **potential reputational risk**. At the same time, regulations and enforcement are tightening and incentives for water reuse are becoming more common, making alternative water sources not only environmentally attractive, but also financially and operationally compelling.

Turning Wastewater into a Reliable Resource

At Colubris, we help our clients close the water loop by transforming wastewater into a dependable, high quality water source. Through advanced treatment and reuse solutions, wastewater can safely replace fresh water for both critical and non critical applications, including:

- Process water and cooling water
- Utility water and boiler feed (with appropriate polishing)
- Truck and equipment washing
- Site cleaning and sanitation
- Irrigation and landscaping

By reducing dependence on freshwater, companies lower operating costs, protect production capacity, and strengthen business continuity, delivering affordable clean water even in water stressed regions.

Proven solutions, real world results

Colubris has extensive experience delivering water reuse solutions across a wide range of industries. Our reference projects include:

- Water reuse in meat processing facilities
- Recycling of process water in pork and poultry operations
- Production of potable water from animal blood streams
- Preparation of irrigation water from domestic and municipal wastewater for small communities

Across all applications, our focus remains the same: minimizing OPEX, reducing environmental impact, and securing long term water availability for our clients' operations.

Water reuse solutions

Colubris has proven solutions and operational references for wastewater reuse, including preparation of drinking water quality water.

Solutions:

- Various screening systems
- Non-chemical pre-treatment systems
- Aerobic and Anaerobic biological treatment
- Media filters (Sand, Glass, Coal, Cartridge or combinations)
- Membrane filtration (MBR/MABR/UF/NF)
- Reverse Osmosis
- UV/Ozone/Oxidation/Chlorination

Beyond just reusing/recycling water, wastewater systems are increasingly about recovering resources: nutrients (nitrogen, phosphorus), energy (biogas, heat), salts, even water in "zero liquid discharge" systems. Colubris has proven solutions to recover nutrients and value from wastewater other than the water itself.

Colubris is the expert in innovative total solutions for waste separation, (waste)water treatment, and bioresources. Since 1984, we have been supporting companies worldwide in making their production processes more sustainable—through expertise and a strong focus on collaboration. Our technologies help reduce food waste, promote more efficient and sustainable water use, and turn residual flows into valuable resources.

As a reliable and agile expert, we offer more than just technology: we think along, continuously innovate, and actively contribute to building a circular future. At Colubris, we combine a people-focused approach with result-driven precision. Together, we create measurable and sustainable impact.

That is Colubris!

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Typical applications

Colubris water reuse solutions are successfully applied across many industries, including:

Food & Agro Industrial

- Slaughterhouses and meat processors
- Fish processing and fishmeal plants
- Rendering and pet food production
- Vegetable processing
- Dairy and food processing

Industrial

- (Petro)chemical plants
- Textile dyeing and printing
- Pulp and paper

Client testimonial

**'We now use 40% less groundwater,
saving 45,000,000 liters of water a year,
or 18 Olympic swimming pools.'**

Sam Deschoemacker | Chief Operating Officer VEOS

Would you like to learn more about our solutions?

Contact one of our experts or visit
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