



Waste water
treatment



Water
recycling

RETHINKING INDUSTRIAL WASTE WATER

The company ENVI-PUR has been dealing with water and its treatment and recycling for more than 25 years. We know exactly how important and irreplaceable water is, especially for industrial establishments. Our experience from water audits and projects have increasingly shown us that water has not always been used efficiently for example does not meet regulatory requirements and cannot be discharged into municipal wastewater treatment plants. Our proven technologies can treat polluted water and when possible reuse it within the company.

ENVI-PUR CAN HELP YOU

- **Meet the required quality of discharged wastewater from the company** – thanks to our tailor-made technologies for the wastewater used within your company, you will always meet the necessary outflow parameters.
- **Reuse water** – water needs to be managed optimally, the best way is to use minimally polluted wastewater or treated wastewater within the company, and recycle it, for example, as technological water.
- **Process SWOT analysis** – we find the best solution for efficient water management.
- **Design and conduct pilot tests** – based on your requirements and identified parameters, we prepare a design of appropriate technology, whose effectiveness we will verify during pilot testing.
- **Minimize the ecological burden on nature** – water is not only a key compound for life on Earth but also an absolutely essential raw material for a significant part of industrial production. Become a responsible and green company and manage water efficiently.

INDUSTRIES WHERE WE HELP



Automotive



Energy



Pharmaceutical



Chemical



Ceramic and glass



Tannery



Paper



Food



Fishing and forestry



Textile



Building



Engineering



WE CAN SHOW YOU HOW SIMPLE IT IS TO RETHINK WATER

The quality of industrial wastewater varies greatly depending on the type of industry. Finding a suitable way to treat industrial wastewater involves a comprehensive approach from laboratory tests, through verification of the proposed parameters on the pilot plant, feasibility studies and project up to the subsequent implementation.

THE WAY TO CLEAN WATER AND SAVINGS



SUCCESS STORIES – INDUSTRIAL WATER

Pet food manufacturer



Czech Republic

Assignment: *Lack of water.
The need for water recycling = saving.*

The insufficient capacity of the water supply for line production was the reason for our client, one of the largest pet food manufacturers, contacted us with a request for water recycling.

Large amounts of drinking water are used during the sterilization process to heat the autoclaves. This wastewater, which has a temperature of 40-50 °C, was discharged into the sewerage system and the WWTP.

For our client, we have chosen, because of the moderately high temperature of recycled water, the ceramic membrane separation technology with inline coagulation.

The wastewater from the autoclaves is currently recycled using this technology and is reused for heating the autoclaves. The daily amount of recycled water is 90-120 m³/d. This is the volume that has had an immediate impact on the reduction of water charges – there is no need to take drinking water from the line, and on sewage charges, because this water is no longer taken to the WWTP, but is recycled.

Wastewater from the brewery



Sweden

Assignment: *Strict regulatory limits.
Recycling = saving.
Independence from the municipal WWTP.*

Sweden is a country that pays much attention to environmental protection. Our client, a brewery with an annual beer production of 25,000 hl/year, approached us with a requirement for a new, in-house wastewater treatment plant.

The investor's priority objective was to meet the strict drainage limits required by Swedish legislation. Another objective was to save drinking water costs by using recycled water instead of drinking water where possible.

Our team of technologists chose the membrane biological reactor (MBR) technology, which in operation reliably meets both required objectives.

The brewery has gained independence from the municipal wastewater treatment plant with its own treatment plant. It discharges the quality unused treated water into the neighboring stream.