

The Pure Eco

We Respect Water

PURECO 
THE PURE ECO





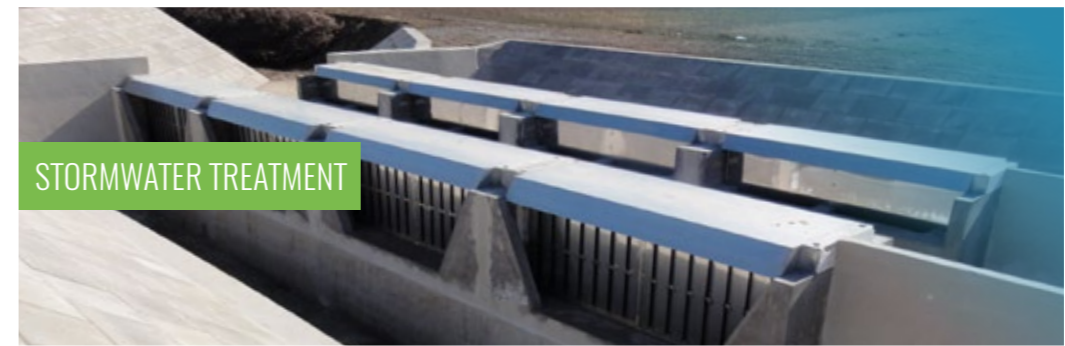
PURECO
THE PURE ECO



DRINKING WATER TREATMENT



WASTEWATER TREATMENT



STORMWATER TREATMENT



LANDFILL LEACHATE TREATMENT



AIR TREATMENT



Mr Bálint Horváth
CEO
Business Development Manager
Hungarian Water Partnership

Mr Károly Kovács
CEO
past-president, European
Water Association (EWA)
Chairman, Hungarian
Water Partnership
Vice president, ASEM Water

WE RESPECT WATER

The Pureco Group of Companies is a Central European Water Engineering Company headquartered in Budapest, Hungary. Having more than 10 affiliated companies in 6 countries of two continents. The Pureco Group develop, design-build, operate and maintain complex water management and environmental related projects. The sustainable and affordable water management solutions provided by Pureco are currently serving people in more than 20 countries of 4 continents.

We also provide financing for our solutions, especially in the case of international sales to emerging markets. (we are the first in Hungary to implement an international wastewater treatment project financed by an EXIM customer loan, and we also have experience in implementing international projects based on Tied Aid Loan).

Pureco is one of the founding members of the Hungarian Water Partnership and the Hungarian multi-stakeholder platform and network on water established to provide innovative solutions for water challenges. Our experts in the different segments of the water industry possess an outstanding professional and innovative knowledge, which had been known and recognized in many parts of the world. Our CEOs play important roles in national and international organizations, e.g. past- president of European Water Association, vice president of Eurasian ASEM Water Academic Development Committee, member of the steering group of European Innovation Partnership on Water and have been working for several years for the worldwide recognition of the Hungarian professional knowledge in the field of complex water management.



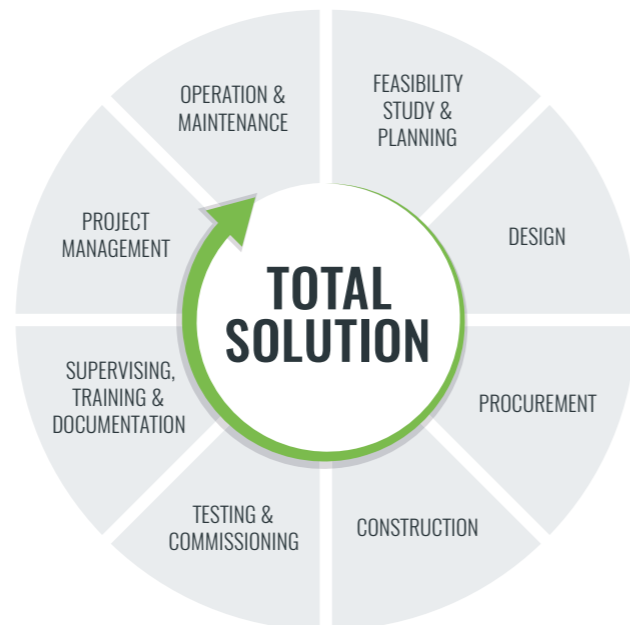


PURECO SOLUTIONS

We believe in people and with our highly qualified and experienced colleagues, we provide you with customized solutions, bringing you the added value in the following core fields of water management:



Pureco offers a variety of tailored service levels taking into consideration the importance of project integration. We work with you, focusing to keep your system running at maximum performance and at the lowest cost of ownership from the raise of your idea, through design, implementation, operation and maintenance.



Drinking Water Treatment



DRINKING WATER TREATMENT

Clean drinking water for everyone! This is our goal when we develop our engineering services in providing potable water for our partners. Our solutions are based on the best available technologies and take the sustainable, efficient, and environmentally friendly water management principles into account. Pureco builds water treatment plant for even a whole community or city but also offers containerized, mobile water treatment systems where fast and highly flexible solutions are required.

Applied units of water purification technologies:

- Coagulation, flocculation, clarification
- Sand filtration
- Membrane technologies (microfiltration, ultrafiltration, reverse osmosis)

We provide full range of engineering, construction, and investment preparatory tasks.



WATER-PURIFICATION AND SERVICE SYSTEM CONSTRUCTION IN VIETNAM



Quang Binh province, Vietnam, 2016



Vietnam Hydroproject Ltd.



drinking water treatment plant



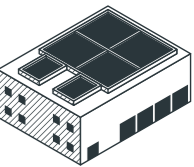
drinking water purification



coagulation, flocculation, clarification, sand filtration, water storage



10,000 m³/d



In Central Vietnam, Quang Binh province the Pureco team gave healthy drinking water to more than 100,000 inhabitants. The project brought better quality of life and the development of basic infrastructure. The 22,000 m³/day capacity water intake structure serves a 10,000 m³/day capacity water treatment plant, constructed in the first phase and a 12,000 m³/day capacity water treatment plant that is currently developed in the second phase of the project. Beside the engineering work our experts trained the local staff to operate and maintain the plant. The project was financed by the Tied Aid Loan from the Hungarian Government.

- 100,000 inhabitants
- 22,000 m³/day capacity water intake
- treatment plant
- training program
- sustainable operation





DRINKING WATER TREATMENT PLANT, QUANG BINH PROVINCE, VIETNAM



PURAIID – WATER TREATMENT SOLUTION FOR RURAL COMMUNITIES

A pallet-size complex water treatment system with 6,000 – 10,000 l/d capacity based on modular units for the treatment and purification of contaminated drinking water for people living in rural, isolated areas and for small communities up to a few thousand people.

Advantages

- simple use
- simple maintenance
- reliability
- remote monitoring on GSM – requires no special skills on site
- offers centralised, customer-friendly service
- complex, mobile modular technology
- chemical free technologies
- regenerable adsorbent technologies
- water storage is not needed
- energy efficiency – also with solar energy
- flow through design
- low operation cost

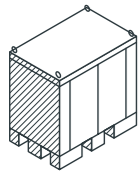
Modular water treatment system

- rural water supply
- water treatment plants
- prototype with 6m³/day
- developing to operate without electrical network
- no chemical needs
- customized, based on required capacity
- mobile system, easy to operate and relocate where needed (remote rural areas)
- online service support and monitoring system





DRINKING WATER FOR RURAL COMMUNITY IN GHANA



Ghana, Eastern Region,
Akim Wenchi village, 2021



Community Water and
Sanitation Agency (CWSA)



small size drinking water
treatment unit



drinking water
purification



iron, manganese and
bacteria removal



10m³/day
serving 12,000 ppl

A modular, small size drinking water treatment unit, PurAID has been installed in September 2021 in Akim Wenchi, Ghana. PurAID is supplying 10m³/day drinking water for local people. The treatment unit was installed at a borehole next to the local Community Water Sanitation Agency (CWSA) office enabling the easy mastering of the operation. PurAID supplying WHO compliant drinking water after removal of iron, manganese, and bacteria. The removal of contaminants is carried out by our own adsorbents and filter materials, this technology does not require the use of harmful chemicals, so the environmentally friendly backwash water is discharged into the rainwater ditch/sewer. Currently, the unit is plug and play technology with a daily energy consumption of 2.4–6 kWh. Green and sustainability guidelines are crucial for us therefore our engineering team is developing the solar based operation. The key element of the simple running is the developed monitoring system which allows remote supervision of PurAID unit. With a connected water supply of up to 30 installed PurAID units, we can maximize the economical operation to cover a whole area from one service centre with one computer which is our aim to reach in Eastern Region.

- modular drinking water treatment unit
- providing 10,000 litre treated water per day
- serving 12,000 people

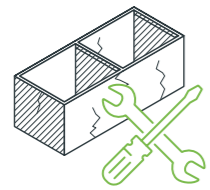


Communal Wastewater Treatment

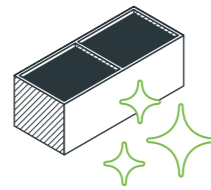


COMMUNAL WASTEWATER TREATMENT

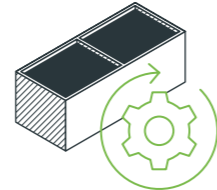
Based on our expert knowledge and our products, we offer:



reconstruction of outdated sewerage treatment plants



construction of new systems – treating sewerage wastewater or septic waters



supporting services for companies doing the operation and maintenance of the systems

Based on our expert knowledge and our products, we offer the reconstruction of outdated sewerage treatment plants, or the construction of new systems - treating either sewerage wastewater or septic waters. Additionally, we provide supporting services for the companies who are dealing with the operation and maintenance of the systems.

We offer the following municipal wastewater treatment technologies:

- mechanical cleaning,
- biological treatment (activated sludge technology, SBR, fixed -film systems, membrane bioreactors),
- tertiary treatment, surplus aerobic sludge treatment,
- for a higher efficiency: the BIOCOS (Combined Biological System) – advanced SBR - technology is the improved version of the aerobic
- activated sludge process, combining the benefits of traditional flow systems and the SBR basin,
- we also offer a special solution to treat the collected septic water in a self-manageable way.



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WASTE WATER TREATMENT
PLAN BUILT WORLDWIDE



3M+
PEOPLE SERVED
WORDWIDE



WASTEWATER TREATMENT PLANT IN KUMASI, GHANA



Kumasi, Ghana, 2019



Jospong Group of Companies



wastewater treatment plant



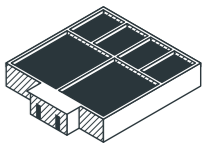
wastewater treatment



modified (5 stage) Bardenpho process with pre-sedimentation



1,000 m³/d



We developed a sustainable and tailor-made solution for Kumasi, Ghana for treating the generated sewerage and wastewater in an efficient and environmentally friendly way. Moreover, we give priority to train the local operation and maintenance staff. By establishing the new, sustainable wastewater treatment plant with the capacity of 1,000 m³/d, the livelihood of more than 2,000,000 people will be improved as they can live in a healthier environment.

- **tailor-made solution**
- **treating 100% septic water**
- **training program for sustainable operation**
- **more than 2,000,000 people in healthier environment**





WASTEWATER TREATMENT PLANT, KUMASI, GHANA



Stormwater Treatment



STORMWATER TREATMENT

Special patented product to treat contaminated rainwater

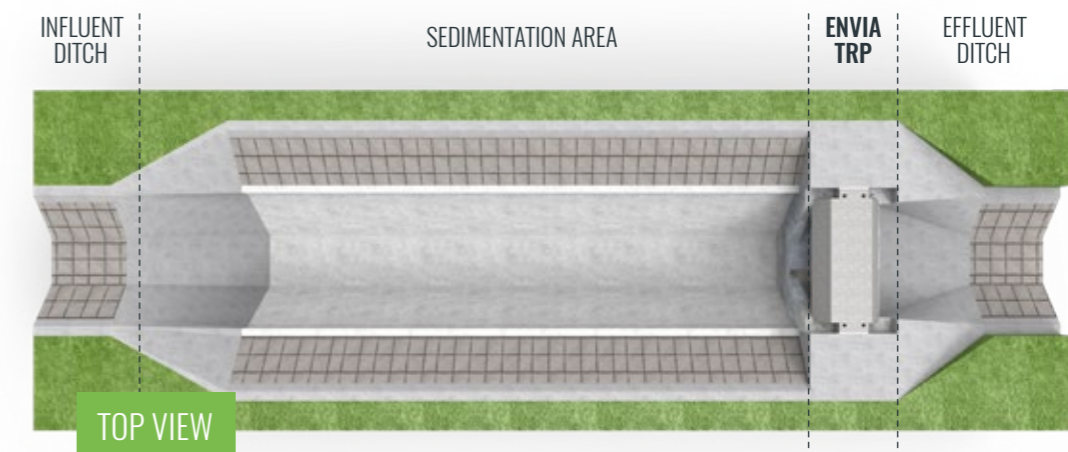
ENVIA TRP is a sustainable and efficient solution developed by PURECO for filtering and retaining the contaminants washed away by stormwater, flowing down from linear engineering structures and paved surface such as roads, motorways, parking lots.

Advantages of the product

- wide-scale hydraulic capacities (0-400 l/s)
- heavy metal and microplastic removal
- made of corrosion proof materials
- easy to install
- small footprint
- less construction work required
- waterproof, long-life solution

Fields of application

- installable in open-surface ditches made for the drainage of stormwater coming from linear traffic facilities
- applicable to control the discharge and/or overflow of small reservoirs or lakes should the overflow retain possible floating contaminants





Other Solutions



AIR TREATMENT

The unpleasant odour and smell are often associated with industrial activities. Municipal wastewater and sludge treatment plants, landfills and composting plants, food or chemical industry often struggle with this problem. Our VENTUS Biofilter system, using the biodegradability of microorganisms, is an environmentally friendly, sustainable, and safe solution to eliminate odour problems.

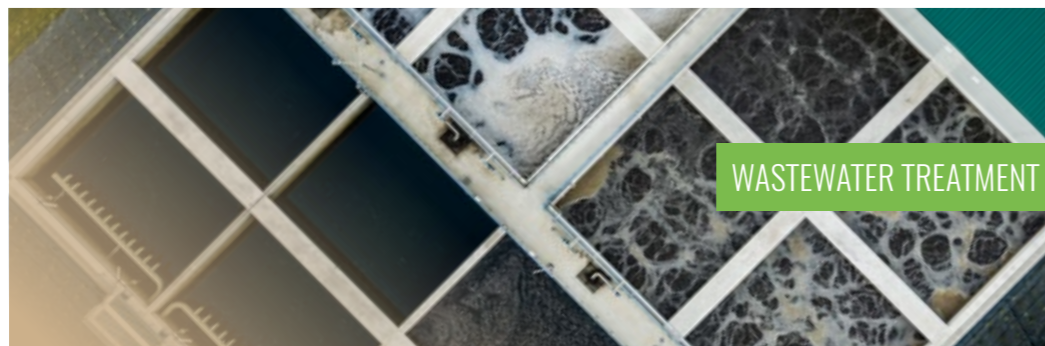
Systems from VENTUS Bidesodor family are available in different types and sizes, with purification efficiency of nearly 100%. Believing in complex solutions we offer not only the biofilter system but several optional components such as gas scrubber, dust separator, air distributor and (container units can be individually connected).



- 3–100,000 m³/h air treatment capacity
- optimal operating cost
- sustainable
- solution for odour elimination



DRINKING WATER TREATMENT



WASTEWATER TREATMENT



STORMWATER TREATMENT



LANDFILL LEACHATE TREATMENT



AIR TREATMENT





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Believing in

the strong cooperation we provide fully customized solutions in all aspects of water management.

Contact us

if you are looking for an innovative, solution-oriented company with excellent references on national and international levels.

