Water solutions

# What we are proud of

PURECO

THE PURE ECO

# Company introduction

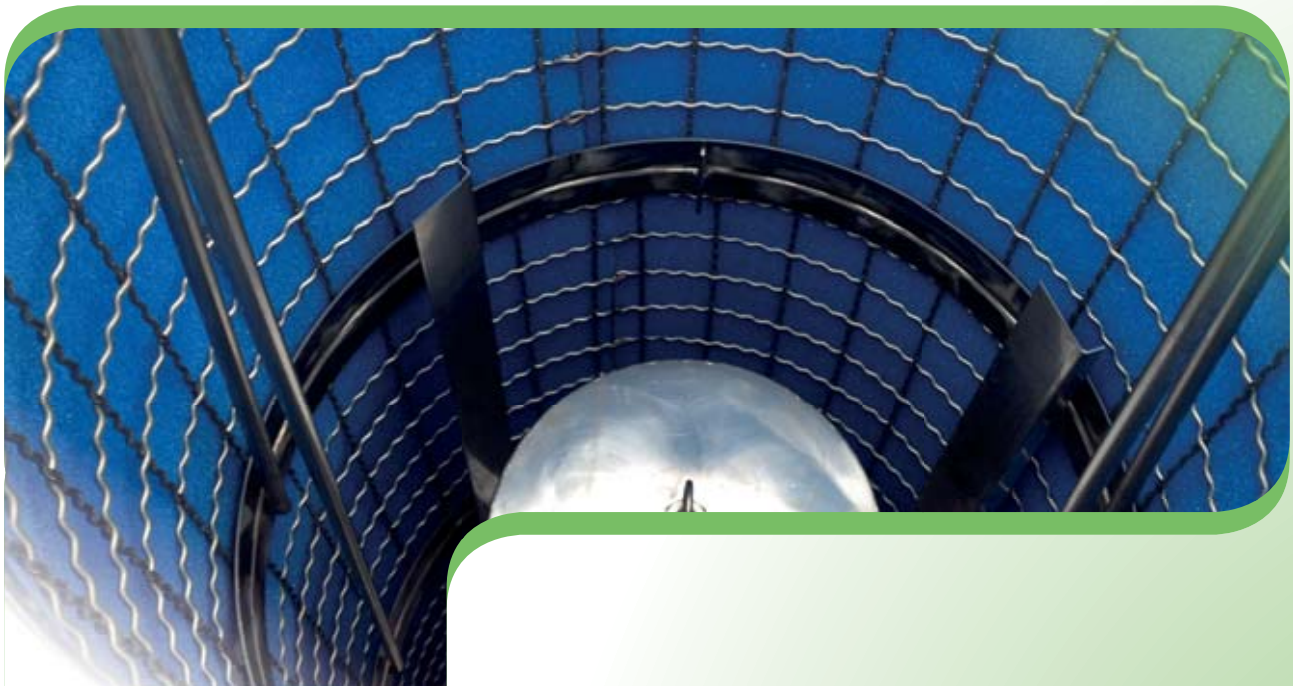
## THE PURE ECO

Pureco Ltd. has been a determining factor since 2006 in the field of stormwater and wastewater treatment, collection, and disposal. Dedicated in our activities of environmental protection, with the creation and conservation of a livable and clean natural environment in mind, we offer our customers sustainable, complex and unique solutions. Among our stable value products and technologies, we offer oil and grease separators with different functions, tanks of large volume and slit gutters, rainwater infiltration systems, pipes from various materials for potable water, fire water and sewage water (ductile iron or stoneware), domestic, and small wastewater treatment plants, as well as municipal and industrial wastewater treatment technologies, and plants. We offer the following services to our customers: coordinating and conducting licensing procedures; servicing and operational tasks of isolating technologies; the modernization, expansion and the increase of efficiency of existing facilities; and laboratory testing, and analysis.

We have significant professional references in the field of water purification and environmental remediation; we contributed to several unique water management system designs and implementations for a sustainable environment.

Pureco Ltd. products and technologies are extremely durable, they are fast and easy to install, and later they offer effective cleaning, maintenance and operational capabilities. Our innovative, patented solutions in the field of stormwater management are unique and unmatched. In addition to the products, the installation methods are also environment-friendly, economical and efficient. Representing the best interests of our customers, in all cases, we develop optimal and cost-effective solutions, focusing on added value, predictability, liability, flexibility and multi-faceted approaches. We not only take into account economic sustainability reasons, our solutions consider the specific characteristics and environmental values of the ecosystem and region, thus we offer and provide unique, customer-specific solutions. We can proudly say that in recent years we significantly contributed to the development and improvement of the Hungarian water utility services, to the environment protection and water conservation in Hungary, as well as in the neighboring countries.

Now let our projects and references speak for themselves!



effectively cleanable,

easy to maintaine , inspectable,

steel flex pipe technology,

less ground work

## Environmentally friendly and eco-conscious solution to treat stormwater at LEGO

STORM WATER MANAGEMENT

" Twinstore " steel flex pipe technology

The technologies offered by Pureco Ltd., are utilized, among others, in Nyíregyháza, Hungary, where the most significant project development is taking place. The Danish LEGO's new factory is being built. This investment will not only create jobs, but will also provide an opportunity, for the accumulated knowledge in the field of civil engineering, to emerge in the form of creative solutions during the construction. The experts of the contractor, COLAS-Alterra Ltd. installed the elements of the 1500 m³ infiltration field, supplied by Pureco Ltd. In order to infiltrate the precipitation a special " Twinstore " steel flex pipe technology is used. The construction of this system involves less ground work; its installation is fast and easy. The system's lifetime has a significant influence on its interoperability and on the contrary to the technologies used so far – it is effectively cleanable, maintainable and inspectable. Besides gathering the run-off rainwater, the infiltration and purification of the rainwater that is not intended for use, is essential as well. The issue of rainwater purification, 300 and 125 l/s, was solved with the installation of PURECO TNP hydraulic performance steel oil traps.

The factory's entire firewater system was constructed from products supplied by Pureco Ltd. The mandatory 'sprinkler' system's main pipe structure consists of Duktus Tiroler " PUR LONGLIFE " pipes. The 3 km long ring main was built with patented, tensile resistant, capsular bounded, polyurethane coated, ductile cast iron pipes, from the DN 100-300 mm range. These are capable to withstand the usual 16 bar pressure in the main pipes of the 'sprinkler' systems, required by the authorities in case of buildings such as the LEGO factory. The development is an excellent example of the cooperation, where Pureco Ltd as a partner delivers expertise and innovative solutions for an environmentally responsible project implementation.

# Storm water management at Budapest Zoo&Botanical Garden

## STORM WATER MANAGEMENT

Permavoid infiltration and ENVIA CRC

The 2nd part of the Budapest Zoo & Botanical Garden's EU financed project entitled "Reconstruction of habitat and congregation" covers the collection and utilization of rainwater from paved surfaces. In this area, every year, approx. 2500 $m^3$ rainwater is collected from sidewalks, roads and buildings and it is directed into the public sewer. The implementation of the project, will allow dewatering on the site. The covered positioning (forming subsurface cavities) of the dewatering units has the advantage of restricting evaporation danger. Furthermore, water will drain primary versus the soil's lower layers, while irrigation systems are rather suitable for wetting shoal topsoil. Thanks to this solution, water gets directly to the root area of the vegetation. As a positive side-effect of the direct infiltration, the Budapest Zoo decreases environmental loading, reducing significantly the quantity of water conducted into public sewer. During the investent Permavoid 38 infiltration system has been used in specific for minimal coverage depth and extreme load capacity. Prior conducting rainwater into the drainage system, it gets filtered from eventual oily contaminations, leaves and other sediments by the ENVIA CRC separation system, developed and distributed by Pureco Ltd., and that can be retrofitted even into existing street drains. The delivery and installation of 330 $m^3$ dewatering units and 117 pcs of separation systems has been completed with success.

It was essential to take into consideration the water level of City Park Lake as it makes only shoal installation possible. The built-in infiltration blocks can be found under the fire zone, so extreme loadability could also had to be considered.

loadable dewatering unit, shoal installation, cost effectiveness, alternative treatment technology, simple, cheaper system

## Budapest Airport – stormwater treatment

### STORM WATER MANAGEMENT

Patented unique solution: ENVIA TRP sludge and oil separator system

Due to the Budapest Airport's environmentally conscious attitudes over the past few years, several improvements have been made in order to protect the natural environment around the airport. In the frame of this initiative the stormwater treatment of the airport's runways, taxiways, other traffic and technical areas , paved walkways, roads, parking areas with polluted river channels was developed, and an accident emergency system was created. The operator assigned the development of the concept to Pureco Ltd. Our experts were looking for a solution to minimize maintenance needs and reduce the operating costs, in addition to it being integrable into the existing drainage system. Upon determining the technical content, state of the art, weather-resistant, durable materials with longevity were selected, with a further advantage of favorable construction costs.

As part of the solution, rainwater pipes that were close to each other were combined and received shared treatment plants. The experts of Pureco Ltd. used a steel pipe in the sizes of D1200 and D1500 for the above mentioned merger, due to the extreme nature of the construction conditions (groundwater, excavation stability). The use of steel pipes, as distributor shafts (in 1600 mm diameter), contributed to the rapid and cost effective execution. In order to clean the contaminated stormwater; nearly thirty open trench ENVIA TRP sludge and oil separation equipment were installed, with a total of 5,800 l/s cleaning capacity.

Pureco Ltd. is proud of this successfully completed project – due to to the diversity of the project the knowledge, experience and collaboration of several other divisions of the company, from design, through licensing, to the product supplies and logistics, was needed.

minimizing maintenance needs,
integrable technical solution,
weather proof system, extreme
implementation circumstances,
ENVIA TRP steel flex pipe technology

no-dig technology,

DN800 pipe

reconstruction

## Utility construction in Buda

PUPLIC UTILITY

No-Dig, trenchless pipe laying

In Budapest, in the Orlay - Mányoki - Kelenhegyi streets, due to a previous very large scale pipe burst, the reconstruction of the water pipe network has become indispensable. Pureco Ltd. has already successfully participated in the trenchless pipe reconstructions of DN 600 pipes, along the Bécsi street - Dereglye street, in 2011. The professional experience gained during this previous project, was utilized on a much larger scale in the Orlay-Mányoki-Kelenhegyi utility construction project. The reconstruction of the existing, 30-40 years old, DN 1000 diameter Sentab concrete pipe was accomplished with the No- Dig, trenchless, technology, along the whole Orlay street (210 m), and with a partial no dig method, due to the vast number of bends, in the Mányoki street. To replace the Buda side water main, Duktus TRM - ZMU passive fiber-reinforced cement mortar lined, patented BRS anchored, muffle bonded, ductile cast iron pipes were delivered by Pureco Ltd – altogether 372 meters. The project is expected to continue under the Bartok Bela Street, and in the garden of the Budapest University of Technology and Economics, thus the No-dig or partial No-dig reconstruction of a total of 618 meter DN800 pipes will be realized at the end of the construction project.

The No-Dig (trenchless) pipe-laying technology is well known among professionals in the field of utility reconstruction; however the indentation of the outdated small-diameter plastic pipes is not comparable to the replacement of an 800 mm utility pipe.

## Sewage Capacity Development for Pet Food Hungaria Ltd. in Sopronhorpács

### INDUSTRIAL WASTE WATER TREATMENT
flotation

flotation equipment and technology, industrial waste water treatment, stainless material, short construction period, simple to maintain, optimal sludge management

| Parameter | Unit | Influent | Effluent |
|---|---|---|---|
| Flow | m³/d | 1 000 | |
| CODt | mg/liter | 7 000 | ≤ 120 |
| BOD5 | mg/liter | 3 700 | ≤ 25 |
| TSS | mg/liter | 3 500 | ≤ 35 |
| Efficiency on CODt | % | 98 | |

The trial run has started at the water treatment premises of the pet food manufacturer, where the treatment and purification of 100 m³ of industrial waste, generated per day, happens. In the development, carried out by the main contractor, Pureco Ltd., the partner is Nijhuis Water Technology, with their BV treatment technology.

The flotation equipment, provided by Nijhuis Water Technology, is designed to separate floating and undissolved materials in water or process fluids. The use of high quality, corrosion resistant materials is space efficient, the construction time is minimal, it is easy to operate, the collection and delivery of deposited materials is automated, and in order to achieve the optimal slurry deposition the water height is adjustable. During the development a 40 m³ buffer pool, a 40 m³ of wastewater-, a 20 m³ flotation sludge-, a 30m³ excess sludge storage tank and an 80 m³ pool was constructed to store the treated water. Pet Food Ltd. furthermore renovated the drinking water supply on site, the internal roads, pavements and sidewalks. The electrical technology and control engineering works were completed on schedule as well.

Laboratory measurements during the test verify the degree of purification.

# Sewage Quality Development for Xellia

## INDUSTRIAL WASTE WATER TREATMENT

SBR

Pureco Ltd. together with its technological partner, called Nijhuis Water Technology has delivered a two-stage wastewater treatment plant (WWTP) to one of the largest pharmaceutical market leader in Hungary, called Xellia. The extension of the existing WWTP was necessary due to the rollout of new products. These new products contributed to the higher pollution concentration in the wastewater stream that could not be handled any more by the existing treatment plant.

The new technology, as the first stage, consists of a drum screen, where most of the non-dissolved material is removed. Moreover, it is a safeguard for the down-stream instrumentation within the plant. As the second stage an aerobic sequence batch reactor (SBR) is dedicated to remove the dissolved materials being present in the waste water stream. The surplus sludge is dewatered by a cloth filter before it is transported to an incineration plant.

The technology ensures that organic materials arose during production could be biodegradable and appropriate quality of treated water.

| Parameter | Unit | Influent | Effluent |
|---|---|---|---|
| Flow | m³/d | 340 | |
| CODt | mg/l | 11 000 | ≤ 1 000 |
| BOD5 | mg/l | 4 500 | ≤ 500 |
| Efficiency on CODt | % | 91 | |

SBR system,

pharmaceutical industry

# Waste water treatment for Gallfood

## INDUSTRIAL WASTE WATER TREATMENT

DAF unit

Pureco Ltd. together with its technological partner, called Nijhuis Water Technology has delivered a one-stage wastewater treatment plant (WWTP) to one of the market leader turkey processing company. Gallfood, situated at Kecskemét, Hungary provides turkey products on a wide scale, which have been successfully introduced not only on the Hungarian but on the European markets as well. The WWTP must have been constructed due to production capacity extension of the meat processing hall, to be able to handle the higher volumetric load, fed to the WWTP.

The new technology of the WWTP, consists only one stage a so called dissolved air flotation unit (DAF) together with a curved screen in order to meet with the sewage effluent requirements. While the curved screen is dedicated to remove any coarse material being present in the wastewater, the flotation unit removes most of the non-dissolved materials. The required chemicals such as FeCl3, NaOH and poly electrolyte dosed into a flocculator pipe prior to the DAF unit.

The primary sludge has relatively high total solid concentration, therefore any dewatering step is unnecessary before it is transported to an incineration plant. The newly built WWTP has been successfully operated since 2007, meeting with the required discharge parameters and makes Gallfood able to reduce environmental impacts and ensures sustainability.

| Parameter | Mértékegység | Influent | Effluent |
|---|---|---|---|
| Flow | m³/d | 2 000 | |
| CODt | mg/l | 3 000 | ≤ 1 000 |
| BOD5 | mg/l | 1 800 | ≤ 300 |
| FOG | mg/l | 550 | ≤ 50 |

new flotation tecnology, curved screen, meet processing industry, multiprocessing, flotation, sustainability

new flotation tecnology, curved screen, dairy industry, multiprocessing, flotation, sustainability

| Parameter | Unit | Influent | Effluent |
|---|---|---|---|
| Flow | m³/d | 30 | |
| CODt | mg/l | 4 300 | ≤ 1 000 |
| BOD5 | mg/l | 2 500 | ≤ 300 |
| FOG | mg/l | 378 | ≤ 50 |

# WWTP for Barcs's Dairy Plant

## INDUSTRIAL WASTE WATER TREATMENT
DAF

Pureco together with its technological partner, called Nijhuis Water Technology has delivered a one-stage wastewater treatment plant (WWTP) to one of the market leader dairy plant at Barcs, Hungary, called Dráva Tej.

Dráva Tej produces dairy and dairy based products on a wide scale, which have been successfully introduced not only on the Hungarian but on the European markets as well. The WWTP was erected as a green field project for the new production facility of the company. The new technology of the WWTP, consists only one stage, a so called dissolved air flotation unit (DAF) together with a curved screen in order to meet with the sewage effluent requirements. While the curved screen is dedicated to remove any coarse material being present in the wastewater, the flotation unit removes most of the non-dissolved materials. The required chemicals such as PAC, NaOH and poly electrolyte dosed into a flocculator prior to the DAF unit.

The primary sludge has relatively high total solid concentration, therefore any dewatering step is unnecessary before it is transported to an incineration plant. The newly built WWTP has been successfully operated since 2008, meeting with the required discharge parameters. Taking local conditions and industry-specialities into consideration we offered sustainable and environmental friendly solution for waste water treatment.

## Wastewater Treatment Solutions

### MUNICIPAL WASTEWATER TREATMENT SOLUTIONS

Biocos, KBA, Purden, P'ecoblock

Responsible water management includes the treatment and disposal of the generated waste water, for which up-to-date and effective wastewater treatment plants and systems are needed. Drawing on the expertise of its employees, Pureco Ltd. not only offers products to upgrade the old and outdated wastewater treatment plants, or to build new systems, but represents its professional vocation in the field of wastewater management with engineering, design and construction services as well. Currently, Pureco is partner in several ongoing municipal and industrial wastewater treatment investments, at the end of the developments the treatment of overall 9.000 cubic meters of wastewater will be solved on a daily basis; this means a PE (Population Equivalent) of over 60.000. In many cases of these local-level investments the BIOCOS Technology, distributed by Pureco Ltd., will be installed. The Combined Biological System, the BIOCOS wastewater treatment technology, is the improved version of the worldwide aeration activated sludge process, combining the conventional flow wastewater treatment system and the benefits of the SBR basin systems. The technology's mechanical/machinery requirements are minimal, thus the low investment costs. The BIOCOS Technology's energy consumption and maintenance costs are also significantly lower, so the operating costs of the plant can be kept low as well. In case of the smaller settlements the so called KBA compact activated sludge installed by Pureco Ltd., the main parts of this compact system, the biological treatment unit and the post sedimentation unit, are installed in one object. A good example of considering the local conditions, and the specifics related to the investments, is that in addition to the above mentioned two technologies, our experts offer further technologies for our customers. Purden (combined structures) systems and P'ecoblock technologies can both be found in the ongoing projects.

combined biological system, reatment of overall 9.000 cubic meters of wastewater, KKBA compact activated sludge installation

WWTP near residential area,

15 000 m³ treated water per day,

100 000 PE, recycled treated water in

a thermal power plant, MBR

## Urban water treatment plant in Yekaterinburg

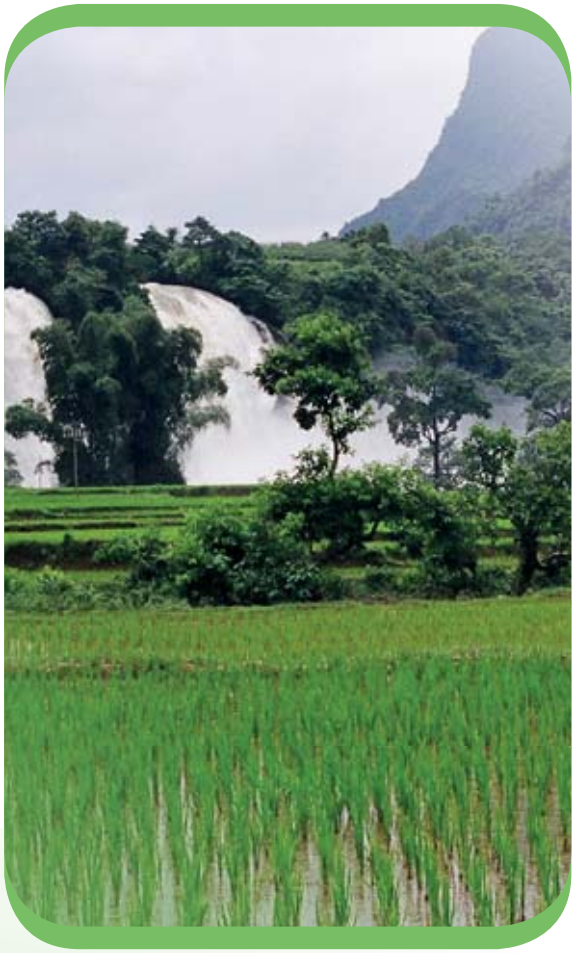
### INDUSTRIAL WASTE WATER TREATMENT

PURBAN®

BDL Ltd. and Pureco Ltd., in cooperation with Pólus Ltd., are cooperatively executing the design and construction of the municipal wastewater treatment plant in Yekaterinburg (Russia) – near the Akademiceskaya residential area. This residential area has been developing in the last decade with a significant speed and currently its own separate wastewater treatment is not resolved. Presently only a rough mechanical treatment plant is located within the designated area, where as part of this greenfield investment the future water treatment plant will be situated. For the future expansion of the residential area the management if it's increased wastewater flow is essential. The current 4-5000 m³/day flow is estimated to increase to a 15 000 m³/day on the long term. The plant load maximum after the expansion will be 100 000 PE. The treated water will either be placed into a living aquatic recipient and/or will be recycled in a thermal power plant. The reason for the strict water quality requirements on one hand is that the Patrushia stream flows through the lake system of Yekaterinburg, on the other hand the thermal power plant's treated water quality criteria are rigorous as well. The development of a solution for the aeration technology, adjusted to the local conditions (-35°C in winter and in summer +32°C air temperature), the reclamation of the thermal energy from the treated water, and the fully - enclosed indoor design are among some of the responsibilities of our experts.

The wastewater treatment plant project is executed in two implementation phases, with four technology lines - based on the following main technological steps:

- Mechanical cleaning (mechanical grid, sand and grease trap)
- Biological treatment (MBR system , with an extra carbon source administration option)
- Third cleaning stage (RO)



surface water intake from river, 22 000 m³/day capacity, clarification, sand filtration, drinking water network

## Water-purification and service system construction in Vietnam

### DRINKING WATER TREATMENT

Flocculation – Flotation and Sand Filtration

The aim of the Central Vietnam, Quang Binh province water treatment project is the construction of water intake and water management structures to provide the region with healthy drinking water. More than 100 000 people live in the service area, on the northern and southern bank of the Gianh River. Pureco Ltd. as a member of the project owner, Hungarian Water Cluster, is contributing to the development of the water treatment plant with its professional knowledge, design and construction experience. The project consists of a 22 000 m³/day capacity surface water intake point with required screens and pumping station, built on the bank of Rao Nan River, which servesas the main water base. The water intake station is going to serve a 10 000 m³/day capacity water treatment plant, constructed in the first phase and a 12 000 m³/day capacity water treatment plant, erected in the second phase of the project.

BDL Ltd. and Pureco Ltd. jointly work on the plant's distribution network design and the implementation of the mechanical, electrical and control engineering. The water purification technology used here:

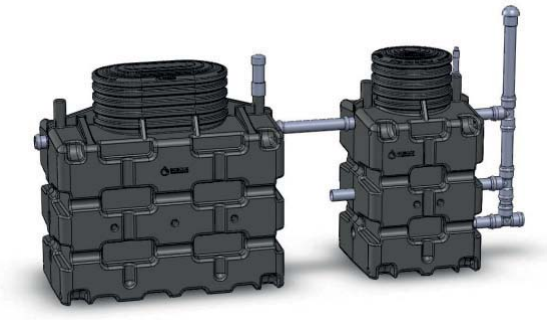
- coagulation
- flocculation
- clarification
- sand filtration
- water storage

Our engineers had to design the water intake point and treatment plant in a block manner in order to take full advantage of the mountainous terrain and space available. The delivery of the machines and installation work is done by Pureco Ltd., with the assistance of Hungarian sub-contractors. The majority of the products delivered to the site are Hungarian products. Currently at the project location ground works and site excavation are in progress.

# OUR PRODUCTS

## PACKAGED SEWAGE WATER TREATMENT PLANTS FOR INDIVIDUAL HOUSEHOLDS

The **BIOROCK®** product range can be used to clean sewage from a single house up-to public restaurants, hotels, schools, shopping malls, and other facilities, it is a cost effective and sustainable solution.



**More about BIOROCK®**

- Revolutionary new technology
- Ecological and economical
- Non-electrical sewage treatment process
- No noise and odor
- Very light maintenance
- 24 hour start-up period
- Long absence periods acceptable
- It operates without inner moving parts
- Minimum annual maintenance
- Lowest operational costs
- Low carbon footprint
- Long desludge interval
- Solar energy option
- It can be added to an existing septic tank
- Superb effluent quality
- Septic tank conversion unit (retrofit)
- Low transport and installation cost
- Small space requirement
- Extremely long lifetime, durable
- Outstanding cleaning performance (effluent class quality N & C)

## OUR BIOFILTERS

The **Ventus compact biofilter** is designed to treat medium volume airstreams wherever odorair emission occurs, particularly in waste water treatment plants. With the Ventus biolfilter, the service life of the facilities increases drastically, as the rate of corrosion decreases- due to the aerated decomposition the ammonia, generated during the putrefaction process, decomposes as well. By choosing the appropriate charge the equipment can be applied in the industry as well.

The 1-500 $m^3$/h performance products were developed in a wide range to better cater for the unique demands of the market, and to provide flexible solutions for the variety of waste water management projects.

## OUR AERATION CHANNEL

Often in case of a joint environmental and waste management development project, there are often, on the project site, issue with the drainage of the surplus water and the aeration of the deposited waste. Using our **VENTILLO** product, these two problems can be solved simultaneously. It ensures long-term sustainability and can handle both the aeration and the compost leachate process as well. The pipe's robust body is made from a special tough concrete, the holes located on top of the pipe were designed specifically for the tasks mentioned above. There is very low risk of clogging, the constant flow of the air is guaranteed at a constant pressure.

# Our products

## OUR OIL SEPARATORS, SEDIMENT AND OIL TRAPS

**Envia TRP** is a sludge and oil separation technology, it can be installed into open surface water courses. This combined oil trap can be integrated into the drainage system of great surfaces with minor pollution, such as roads, in individual cases it is also used to purify the surface water of car parks, industrial parks, factories.

**Envia CRC** is easily and quickly installable into commercially available gully-holes, it is an ÉME (National Technical Approval)-certified technology. It can be installed for the pre-treatment of surfacewater runoff of streets and parking lots.

**Envia TNC** is a reinforced concrete oil trap tank, manufactured in accordance with the MSZ EN 858 standard. It can be installed into the drainage system of facilities; moreover it can be utilized as a pre-treatment technology for liquid waste.


**Parco**
Tank sedimentation and grease separator installation according to the MSZ EN 1825 standard, available in individual customer specific sizes, used for the wastewater pre-treatment of restaurants and food industrial facilities (meat plants, bakeries).

## RAINWATER STORAGE

**X-box bloc 200**
High -capacity and stiff stormwater infiltration system for industrial applications .

**Gitterbox 250**
The simplest to install, easiest to use stormwater infiltration system for single family homes.

**Controlbox**
on-site ready -mounted high-rigidity rainwater infiltration system with built-in manholes.

**Permachannel**
Special gutter rainwater collection system with integrated oil trap walls.

**Permafilter**
High stiffness, stormwater infiltration system with integrated oil-absorbing technology.

**Permavoid**
High stiffness stormwater infiltration system, which is used in case of high groundwaters.

**Biocalith**
Bio - soilfilter substrate, for the biological preparation and purification of ground waters, and wastewaters below ground.

# Our products

**PowerRain**
Fully automated rainwater utilization system with a water level indicator - quiet and reliable.

**Project monitoring system**
Continuous, automated remote monitoring system for infiltration systems, solar power operated.

## RAINWATER STORAGE

**TUBUS**
Seam hot-galvanized storage tanks made out of corrugated steel

**TWINSTORE**
Space-saving infiltration - and storage system.

## CSAPADÉKELVEZETÉS, RÉSFOLYÓKÁK

**M- profile slit gutter**
108 cm² ( NW100 ) flow cross-section reinforced concrete slit gutter, with an internal slope, for stormwater drainage systems of parking lots.

**T-profile slit gutter**
Road-surface storm water drainage, with a low mounting depth, 185 cm² ( NW150 ) flow cross-section reinforced concrete slit gutter, for truck load bearing with an integrated curb.

**I-profile slit gutter**
or the stormwater drainage of large surfaces, pavements, with integrated curbs of different heights, and an inner slope; flow cross-section 434 cm² (NW200).

**II-profile slit gutter**
706 cm² (NW300) flow cross-section, reinforced concrete slit gutter for the desiccation of large paved surfaces.

**III-profile slit gutter**
1006 cm² (NW350) flow cross section, reinforced concrete suitable for the stormwater drainage of pavements subjected to strong dynamic load.

**IV-profile slit gutter**
434 cm² (NW200) flow cross section, reinforced concrete, mainly for the stormwater drainage of paved surfaces on airports.

## UTILITY CONSTRUCTION MATERIALS

**Vitrified clay pipe**
Highly durable and reliable, environmentally friendly piping systems, for wastewater and stormwater drainage (gravitational) either socketed-glazed or unglazed, available with a wide selection of fittings.

**DIP (ductile iron pipes)**
These ductile iron pipes with restrained joints are uniquely suited to drain both the drinking water as well as sewage water. These widely used socket-type ductile casting iron pipes are available with the variety of external and internal coating.

## Our Services

**Site visits, and assessments related to the pre-treatment of liquid waste and the treatment of contaminated storm water.**

Preparation of technical proposals based on the location, for the collection, the drainage, and the treatment of water, in accordance with the legislative and local regulatory requirements. The technical proposals are prepared with the selection of optimal techniques, products, equipment and technologies.

**Planning, designing and dimensioning tasks**

We offer the development of concepts, preparation of feasibility studies, and further documentations of all levels, from customer informative materials to licensing, and detailed designs and execution designs.

**Licensing and management of official procedures**

We offer to supervise and administrate the regulatory approval processes, from the management of the construction permit procedures to the procurement of the final operating permit.

**The maintenance and operational tasks of Separating Technologies**

We offer the monitoring of the separating equipment and systems, on-site reviews either quarterly or semiannually, and the performance of the necessary cleaning, maintenance, reparation and replacement tasks. Our services include the extraction of hazardous waste, its collection, legal placement and disposal.

**Technological modernization and the increase of efficiency of existing facilities**

We offer consultancy and implementation with regards to the technological renovation and the increase of operational efficiency of structures and equipment that are amortized, unfit to hold the output parameters, or contain obsolete technologies.

The installation of prefabricated technology elements, developed based on a preliminary inspections, reduce the execution time. We offer cost-effective solutions with a guarantee of only short periods of downtime, and a warranty against production and revenue losses.

**Environmental reviews, conducting test operations, efficiency tests, water sampling and analyzes**

We carry out examinations of the operation of existing systems, if necessary, accredited sampling, and laboratory testing with regards to ground water; discharged, pre-treated stormwater, and processed wastewater. We offer the preparation of final inspection reports, if required, we formulate recommendations, based on the conclusions reached by the report .

# The Pure Eco

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