



**COMPANIES,
INSTITUTIONS AND
ORGANISATIONS**

IN THE HUNGARIAN WATER SECTOR

2019



COMPANIES, INSTITUTIONS AND ORGANISATIONS

IN THE HUNGARIAN WATER SECTOR





MINISTRY OF
FOREIGN AFFAIRS AND TRADE
OF HUNGARY

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HEPA

Hungarian Export
Promotion Agency

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FOREWORD

Water is the most critical resource for our life. It is important to acknowledge and value water, and the role it plays in international peace and security.

Although Hungary is in the possession of abundant water resources, the increasing frequency of water-related extreme weather events has led to the adoption of the National Water Strategy in 2017, aiming to reduce the possibility of water shortage in the future. It is my firm belief that through the experience and understanding that our country has concerning the management of sustainable and integrated water resources, we are able to contribute to the prevention of global water crises.

There are more than 300 rivers and 600 other water resources that reach through borders and about 40 percent of the world's population lives in such areas. Local water crises can thus turn into significantly greater conflicts. Therefore, international politics should focus more on the peaceful distribution of water and on the fight against developments threatening the world's water bases.

By 2030, millions of people will have no choice but to leave their homes in search of regular access to water. Desertification will be a direct threat to the livelihood of nearly 1 billion people in 100 countries.

Due to the considerable amount of knowledge and expertise amassed through centuries, Hungary has increased its adaptability. In line with the current global trends, the Hungarian water sector puts special emphasis on research and development, and aims to come up with new and innovative solutions that promote sustainable development. Hungarian companies have been sharing their expertise and technologies worldwide through a wide number of sanitation, sewerage, water purification and irrigation projects benefiting local communities from South-East Asia to the Caribbean.

I am proud to present you with this publication that provides a comprehensive insight into expertise in the Hungarian water sector, offering a broad spectrum of innovative and environment-friendly solutions.

Péter Szijjártó

*Minister of Foreign Affairs
and Trade of Hungary*



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Educational Institutions





Sector and subsector

Higher education

About the institution

NUPS is a higher education institution that, among others, trains future civil servants for water authorities. NUPS FWS offers BSc programmes of water-related civil and environmental engineering as well as an MSc on international water governance and water diplomacy.

Apart from general engineering studies we offer specialist studies in regional water management including water-related construction, water resources management, flood control, irrigation, drainage, river management, water and wastewater process engineering and sustainable development.

Our laboratories related to hydrologic and environmental engineering and the Water Technology Centre (WTC) meet international standards.

Summer Schools and a post-graduate specialised engineering training in flood and excess inland water management and water supply and sewerage are also offered. The training puts emphasis on merging the state-of-the-art water-related innovations to its curriculum.

Our research is aimed at answering the challenges related to climate change, to the protection of both natural and built environment, and to the preservation of water resources. Integrated water management is our highlighted research topic.

Products, services, innovative solutions

Our main task is to ensure a practice-oriented basis for engineering courses that is open for other national or international institutions, undergraduate students, PhD students, lecturers and researchers.

Our new programme is a 2-year Master of Science Programme on International Water Governance and Water Diplomacy for students with an engineering, public administration, international relations, economics or legal background. The programme is based on an innovative combination of hydrology, resilience science, international water governance and conflict resolution as well as diplomacy.

Our Faculty hosts the WTC Pilot Plant that is unique in Hungary: all the conditions are given to examine the operation and treatment efficiency of drinking- and wastewater treatment technologies.

We are currently engaged in 1D and 2D hydro-dynamic modelling, small catchment hydrology and investigation of the genesis of flash floods, hydrological statistics and the investigation of riverine sediment transport as well as fluvial ice monitoring. We are particularly interested in physical modelling of streams, which is one of our near future research topics.

References

- ➔ Horizon2020 - AquaNes "AquaNES – GA 689450, Demonstrating synergies in combined natural and engineered processes for water treatment systems"
- ➔ HUSRB/1602/12/0014 IPA CBC „Sustainable wetland management for the transboundary Palic-Ludas catchment area"
- ➔ DSPF 04_ECVII_PA05 "International Postgraduate Course on Flood Management" – development of a specialized training
- ➔ HUHR/1001/1.1.2/0009 Sediment Transport of the Drava River – in frame of "Dráva morphological monitoring"
- ➔ TÉT_15_IL-1-2016-0013 "Development of smart chlorination system for the reduction of operational costs and public health risk"

Contacts

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UNIVERSITY OF DEBRECEN (UD)



Education – Research in water science (irrigation and drought mitigation, excess water, hydrobiology, agro-chemistry, urban hydrology)

The UD, as a leading and prominent institution of the Hungarian higher education is dedicated to developing and improving high quality, versatile and interdisciplinary educational as well as research and development programs. At UD we are dedicated to staying at the forefront of teaching and learning developments. Besides providing services in education, research, healthcare and prevention activities, and agriculture the university is also committed to strengthening cooperation with professional associations, engineering chambers and all sectors of the water industry. Research at the UD aims to provide answers to socio-economic-scientific challenges of demographic and global changes in the fields of agricultural sciences, health sciences, law, economics, engineering, pharmacy, social sciences and natural and environmental sciences. With nearly 30,000 students, UD has the largest student population in Hungary. 53% of our students study in bachelor's programme, 22% participate in the one-tier programs and 12% study in master's programmes. A total of 4,000 international students are enrolled at UD, which means that 12% of all international students in Hungarian higher education study at the UD.

3 out of 14 UD faculties offer water-related programmes (Agricultural Water Management Engineering at Faculty of Agricultural and Food Sciences and Environmental Management, Hydrobiology Engineering at Faculty of Science and Technology and Environmental Engineering at Faculty of Engineering). Agricultural Water Management Engineering imparts education and training towards an understanding of the complexity of sustainable integrated agricultural water management. The Aquaculture Laboratory serves as an up-to-date training and research facility in the fields of severe fish rearing and aquaponics. Centre for International River Basin Management and Climate Adaptation will be launched in 2019. The European Strategy Forum on Research Infrastructures selected this Centre into their Roadmap (which collects the research infrastructures that define the Pan-European and long-term needs of the European research communities in a regularly revised manner). A hydrobiologists program is designed for students who are interested in biological and environmental issues concerning surface and underground waters. The master's program of Environmental Engineering provides students with scientific, ecological, engineering, economic and controlling knowledge.

Courses and education of UD are based on practical and labour-market oriented knowledge. RDI activity of UD (demonstrated by publications, citations) has steadily grown and proven outstanding when compared nationally. Priority areas of research, e.g. water chemistry, urban hydrology, applied irrigation and drainage, and hydrobiology are focus areas selected for their multidisciplinary approach. Furthermore, 44 excellent water scientists were awarded within the Higher Education Institutional Excellence Programme (20428-3/2018/FEKUTSTRAT) of the Ministry of Human Capacities in Hungary, within the framework of the 4th thematic water science programme of the University of Debrecen, in 2019.

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About the institution

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innovative solutions

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Sector and subsector

Higher education, research, water treatment, innovative technologies, micropollutant removal

About the institution

The University of Pannonia, with its seat in Veszprém, welcomes students in Veszprém, Nagykanizsa, Keszthely, Kőszeg and Zalaegerszeg on the lands of the former Roman province, Pannonia. The five faculties of the university offer high quality education supported by cutting edge research activity vibrant international partnerships and student friendly environment in culturally active cities. To meet the needs of the labour market, our activities are carried out in close cooperation with the regional industrial partners and local governments. The professional achievements of our academic staff and the internationally recognized R&D results put the University of Pannonia among the best Hungarian universities. The degree obtained at our university is an acknowledged, valuable certificate providing a solid basis for successful career perspectives. We offer undergraduate programs in Water Operation Engineering, Bioengineering, Environmental Engineering and Environmental Sciences; graduate studies in Environmental Engineering and Environmental Sciences and a postgraduate course in Water and Wastewater Treatment, among others. PhD students are welcome to choose water-related topics for research in one of the five doctoral schools.

Products, services, innovative solutions

The University of Pannonia is dedicated to the advancement, dissemination and application of knowledge pertaining to sustainable water management. Several research groups focus on solving water-related issues.

Current research topics:

- ➔ Research of functional biodiversity in freshwater ecosystems along different spatial and temporal scales. An important test area is Lake Balaton.
- ➔ Investigation of bioelectrochemical systems, anaerobic degradation methods for and membrane separation processes.
- ➔ Development of complex on-line monitoring tools and data-driven evaluation methods to support sustainable development of water smart systems.
- ➔ Exploring treatment strategies and recycling technologies for thermal waters.
- ➔ Optimizing industrial and municipal wastewater treatment processes of different scales for pollution mitigation as well as reuse purposes.
- ➔ Research of cost-effective waterborne micropollutant removal methods.
- ➔ Prestigious international projects contribute to the quality of the programs in these areas. Students are advised to participate in researches from early on to enhance their theoretical knowledge and soft skills. Joint internship is available for students at one of our industrial partners.

Awards

- ➔ Research University, government-level recognition, 2018.
- ➔ Research Faculty for the Faculty of Engineering, government-level recognition, 2013. Quality Award of Higher Education, 2011.

Academic partners - examples

- ➔ Lund University, Sweden
- ➔ Queensland University of Technology, Australia
- ➔ Kosice Technical University, Slovakia
- ➔ Gifu University, Japan
- ➔ Montanuniversität, Leoben, Austria
- ➔ University of Maribor, Slovenia

Industrial partners - examples

- ➔ Hidrofilt Ltd – founding partner of Soós Ernő Water Technology Research and Development Center
- ➔ Henkel Hungary Ltd
- ➔ MOL Group
- ➔ Denso Manufacturing Hungary Ltd
- ➔ Huntsman Corporation
- ➔ SUEZ Water & Technologies Hungary Ltd
- ➔ municipalities, authorities and water companies

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UNIVERSITY OF PÉCS

FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



Education, research in all water sectors

Today with its 3,000 students, its several decades of experience, and its recently renovated and extended campus, the Faculty of Engineering and Information Technology is one of the most colourful institutions of Hungary's tertiary technical education and one of the prominent centres of the country's engineering life. The 8 basic training programmes cover technical, artistic and information technology related fields of study in the following branches: architecture, civil engineering, environmental engineering, electrical engineering, information technology and architectural design.

Since September 2014 students have been able to opt for undivided training in architecture, Architect Designer DLA and Architectural Engineering PhD.

During the comprehensive refurbishment of the faculty buildings, classrooms were equipped with air conditioning and modern multimedia equipment. State-of-the-art instruments and equipment were installed in the labs adjacent to the main educational building.

WATER MANAGEMENT:

The course includes the following topics:

History and national aspects of water management.

Problems of water management sectors and description of duties. The water resource management features, the concept of water balance, water cycle. Water storage, water supply, sewerage, industrial water management, thermal recovery.

WATER QUALITY PROTECTION:

The course includes the following topics:

Surface and groundwater classification. Diffuse and point-source polluters. Rivers and lakes water quality control, water quality protection. Water quality protection intervention facilities and methods. Direct and indirect intervention options.

TRANSPORT MODELLING:

The course includes the following topics:

Properties of fluids. Hydrostatics. Hydrodynamics. The laws of water movement near the porous medium. The spread of pollutants in the soil and in the groundwater. Transport modelling.

WASTEWATER TREATMENT TECHNOLOGIES:

The course includes the following topics:

Types of water, quality and cleaning requirements. Main water treatment technologies, procedures. Municipal wastewater treatment processes and methods. Sludge treatment and recovery options.

- ➔ EFOP-3.6.1-16-2016-00004 Comprehensive Development for Implementing Smart Specialization Strategies at the University of Pécs; 1 January, 2017 – 30 June, 2021
- ➔ Higher Education Institutional Excellence Programme of the Ministry of Human Capacities in Hungary, within the framework of the 20765-3/2018/FEKUTSTRAT Innovation for sustainable and healthy living and environment thematic programme of the University of Pécs, 1 August 2018 – 31 May, 2019

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Sector and subsector

About the institution

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innovative solutions

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Sector and subsector

Water resource management, hydrogeology, drinking water resources

About the institution

The University of Miskolc, Faculty of Earth Science and Engineering is one of the of the oldest higher education institutions of the world in mining discipline, with its history dating back to 1735. Building on this exceptionally strong technical tradition and professional community network, our present faculty has been working on the industry driven renewal of our knowledge, educational programs and research focus. As a result of these efforts, the conventional technical disciplines have been reshaped to the present global challenges, positioning water resources management and hydrogeology as one of our focus areas.

Products, services, innovative solutions

The University of Miskolc, Faculty of Earth Science and Engineering offers MSc program in Hydrogeology Engineering.

The aim of our program is to train highly qualified engineers (MSc Hydrogeologist Engineer) who are competent in dealing with hydrogeological, water management and environmental issues related to surface and underground water resources, with special emphasis on exploitation, protection of water resources and groundwater remediation challenges. The graduates of our program are capable of solving problems of hydrogeological and geotechnical challenges encountered during the design and construction of various engineering structures. The program also addresses technical and hydrogeological aspects of geothermal energy exploitation and legal issues related to water management. The duration of the program is 4 semesters. PhD Program: Graduates with outstanding results have the opportunity to continue their studies in the Mikoviny Sámuel Doctoral School of Earth Sciences. The objective of the program is to provide advanced scientific tools for researchers in earth sciences and to publish their achievements. Full-time, part-time, or independent study programs are available for students from all over the globe.

References

The University of Miskolc Faculty of Earth Science and Engineering is among the most successful Hungarian actors of Horizon2020 research programs. Out of its presently running 5 funded programmes, two are directly linked to hydrogeology and geothermal energy exploitation (KINDRA, CHPM2030). Our teaching and research staff is responsible for the coordination of two RIA programs with multiple partnership. Our Faculty is open to cooperation within the framework of other research and educational programs and professional missions. CHPM2030 - Combined heat power and metal extraction (www.chpm2030.eu)
UNEXMIN project: www.unexmin.eu
Kindra Project: www.kindraproject.eu

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SZEGED CENTRE FOR VOCATIONAL TRAINING SZEGEDI SZC GÁBOR DÉNES SZAKGIMNÁZIUMA ÉS SZAKKÖZÉPISKOLÁJA



Education started as early as 1964 in the Széchenyi István Specialized Institution, known at the time as Tisza-parti High School.

During the 1980s the system of water management education was modified. Regional and settlement water management technician classes were added. In the 1990s, following demands we added environmental education to our water management trainings. Students spent five years learning about water management and also environmental protection. Upon completion of their A-level exams, students were trained to be water management technicians.

Between 2009 and 2015 our school functioned as a member institute of "Szegedi Műszaki és Környezetvédelmi Középiskola". The high school education and the educational studies were terminated in 2010.

In 2012 our school was integrated with Gábor Dénes institute.

In 2015 due to a newer organizational modification, the Szeged Centre for Vocational Education was founded and the Gábor Dénes institute was integrated into it.

Since July 1 2016 our school has been operating as Szeged Centre for Vocational Training.

Education in water management and environment protection

The class starting their water management specialization in 2012 will take the technician exam this year. Classes starting in 2013, 2014 and 2015 participate in water management-environment protection specialization group education. They will take higher level A-level exams and, in addition, they will be given a certificate for scope of work activities. After completing an additional year, students will obtain a water management technician or environment protection technician certificate.

One-third of our students starting in 2016 are participating in water management education, the rest of them are participating in the environment protection section. Students passing the A-level exam are given a mid-level "OKJ" (national training register) certificate (in water management specialization: water management administrator). In our school after the A-level exam, students can choose between two types of technician certificates: water utility technician degree or water management technician certificate.

Currently, we are teaching water management technician and environment protection technician classes full-time.

Our mission is to start a complete class complete class (full-time as well as part time) in water management in the future.

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About the institution

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innovative solutions

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Water-related Organisations



BUDAPEST CHAMBER OF COMMERCE AND INDUSTRY



BUDAPESTI
KERESKEDELMI
ÉS IPARKAMARA

Sector and subsector

Consultancy, public organisation

About

The Budapest Chamber of Commerce and Industry (BCCI) was founded in 1850 and it is a significant public body as regards the economic and social life of Budapest, and has the biggest membership among the Economic Chambers.

BCCI has more than 4,000 members representing trade, industrial, business service providers, handicraft private entrepreneurs and other business organizations in Budapest.

BCCI aims to strengthen the Hungarian economy, protects the fair play market behaviour and represents the general and joint interests of the business entities.

BCCI is also involved in the national legislation procedures affecting the Hungarian economy and plays a significant role in the implementation of long-term economic development programmes, including the development programmes of the Budapest area.

Products, services, innovative solutions

As one of the major stakeholders in the central Hungarian economic region, BCCI supports the small and medium sized enterprises with the following activities and services:

- General representation of the business sector
- Carrying out economic analyses, and facility studies
- Managing educational projects, including vocational training projects
- Managing registration and voluntary membership issues
- Operation of the Documentation and Authentication Office
- Office and infrastructure services upon favourable conditions
- Legal Alert Service. guiding SMES through the changes in business legislation
- Business partner search service: helping business entities to access new markets inland and abroad
- Information and consultation services on taxation, financial resources, legal and other business-related issues
- Mediation
- Operation of the Conciliation Board for economic dispute resolution
- Providing favourable Széchenyi credit facilities to SMEs
- Operation of the Documentation and Authentication Office
- Coordinating and organising various business events

Contacts

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GENERAL DIRECTORATE OF WATER MANAGEMENT



Water management

The General Directorate of Water Management (GDWM) is an independently operating institute and a central government body under the direction and supervision of the Minister of Interior. The General Directorate of Water Management, – as a central governing body – supervises, coordinates and controls the professional activities of the water directorates. GDWM was created on the 1st January 2012. GDWM coordinates flood related tasks, operates forecast monitoring system, dealing with protection against excess water, agricultural water supply and urban water management. Our vision is to ensure the safety of society and water resources with data based sustainable water management and efficient risk management with data based infrastructure systems.

We deeply believe in cooperation with foreign countries. Recent activities of GDWM were to develop a water scarcity monitoring system. The system combines innovative detection and evaluation methods. Information related to soil moisture support operational water resource management and the assessment of supply and demand, crucial for the agricultural sector to reach its goals. A new, daily resolution drought index was elaborated. Input data for the index is provided by 47 monitoring stations. The data are published on a web portal. GDWM is pioneering in the field of flood risk management. GDWM also developed flood risk maps. It aims to revise the flood prevention strategy, in view of the modern and changed social- economical demands on strategic and national level. Moreover, we developed operation management system on the River Tisza. Currently we are developing hydrological modelling methods based on hydraulic and precipitation-runoff processes in order to gain daily information to support dynamic water management instead of a static method. We developed an integrated database to a water quality inline system.

GDWM participates in international committees like ICPDR, UNCCD and projects such as Mitigation of flood risk along the Danube River and tributaries (INTERREG DTP2-003-2.1); Enhance the status of waters of the Tisza River Basin (JOINTISZA); Network of Danube Waterway Administrations - data and user (NEWADA). Danube River Basin Enhanced Flood Forecasting Cooperation (DAREFFORT); Drought and Water Scarcity Management System was awarded as the Best IT Project of the Year in Hungary by Esri.

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HUNGARIAN WATER PARTNERSHIP



Sector and subsector

Cost-effective water solutions, design, planning, construction, production, R&D, business consulting

About

Transferring cost-efficient water and sanitation solutions in a changing environment is our mission. As a network for water sector companies and additional companies to improve economic performances in a dynamic and growing international environment, Hungarian Water Partnership concentrates on water management. On the whole, it is rooted from engineering-design to construction and from consultation to operation and maintenance in different segments of the water industry. We possess outstanding professional and innovative knowledge, which is known and recognized worldwide.

We are competent in finding solutions, performing planning, achieving financial support and performing the operation of the plants. We consider the water management of a country as an integrated one, which aims to achieve sustainable, affordable water and wastewater industry fixed in a healthy environment. Having more than a decade long reputation in the field of water-related business activities and professional engagement on European and Asian level (European Water Association, EWA and Asia-Europe Meeting, ASEM Water), plus strong and marketable Hungarian and international references, we are ready to bring together key players in the field of water-related supply-demand, as well as economic stakeholders.

Products, services, innovative solutions

We are inclusive and embrace the diversity of our members and participants, bringing together people from around the water sector and from a wide range of professions who are concerned with the future of water. We are science and practice-based, exploring the frontiers of science, technology and practice and implementing innovative solutions for urban and basin-wide water and sanitation challenges.

The engineering and business knowledge and broad experience of our members cover the full technical fields related to design (technology, civil engineering, control engineering and automation), and the complex financial and economic knowledge associated with water utility services, investment planning and implementations. Due to our diverse professional activities, we consider both technical, ecological, and economic aspects in order to find the most sustainable alternatives in order to support our clients in optimal decision making. Our professionalism is marked by water-related design, construction, research and development, production, engineering services and IT plus business consulting services as well.

References

International water branding (EWA, ASEM Water) and reputation, with our professionalism and innovation partnership we offer customized solutions in different fields of water-related challenges. Having wide international experience in the field of sales, logistics, project management and financial support we are able to be present with our water-related projects in 4 continents in more than 25 countries. Detailed references are available at our members.

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HUNGARIAN WATER UTILITY ASSOCIATION (MAVÍZ)



Independent representative of the Hungarian water sector and water industry

The Hungarian Water Utility Association (MaVíz) was established in 1990 with a view to act as an independent representative of the water industry's interests, offering trade development and engineering services. In Hungary, public water services are provided by state and municipally owned water utility companies. 40 public utilities operate under different structures and 39 of these are affiliated members of MaVíz, which represents more than 98% of the public water services of the country. In addition, 120 affiliated members represent the water industry and trade, institutes and engineering services. MaVíz has the duty to co-ordinate these organisations, which differ not only in size but also in the type of services they provide. The Hungarian Water Utility Association is a member of a wide range of international organizations including EurEau, the European Federation of National Associations of Water Services. MaVíz has been a full member of EurEau since Hungary joined the EU in 2004, after having examined the activity of this European organization for years as an Observing Member. The Hungarian Water Utility Association is also a governing member of the International Water Association (IWA) since 2004.

The MaVíz International Training Programme was launched in 2016. It is exclusively designed for those foreign students and employees of the water sector, who wish to acquire new practical skills, knowledge, experience and best practices from the experts of the Hungarian water utility sector in different topics like efficient control techniques and automatic systems in the water utility sector, sewage sludge strategy, questions, experiences and solutions, operating small and medium size wastewater treatment plants. We also provide an English language book called "Efficient operation of medium and small sized wastewater treatment plants: technological basics" by Dr. Miklós Patziger.

Moreover, our members can share their skills and offer innovative solutions in water leakage detection practices, arsenic removal, the reduction of non-revenue water, the design of water safety plans and the operation of water supply and wastewater treatment services. In addition, they can offer a wide range of water meters, pipes, control software, complex water treatment technologies, machineries and laboratory equipment.

NRW management training – 11-15th April, 2016: Experts from the United Water Supply Company of Georgia (UWSCG) participated in a one-week study tour focusing on the topic of "Non-Revenue Water (NRW) management" and best practices in Hungary during 11–15th April, 2016.

"Efficient operation of medium and small sized wastewater treatment plants: technological basics" by Dr. Miklós Patziger: this reference book contains up-to-date sewage technology knowledge for the efficient operation of wastewater treatment plants which can be used in our trainings.

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Sector and subsector

Water management, knowledge transfer, science and education, consulting and water businesses

About

Hungarian Water Association (HWA) is a non-profit federation that has been providing an active community for water professionals, opinion leaders, decision makers, water companies and individuals for more than twenty years. HWA means a professional source of knowledge, experience and activities for sustainable urban and basin related water solutions.

Leadership. Professional commitment. Collaboration. Scholarship. Service. Added value. Knowledge sharing. Representing sectorial interest. Supporting the YWPs. These are the core values that guide the Hungarian Water Association and its members in fulfilling our mission to saving our waters.

HWA's main aim is to provide qualified, yet independent professional services and assistance to experts in the field of urban water management and in the domestic water sector.

Our goal is to establish a strong international network by linking partners, suppliers and specialists, as well as to facilitate knowledge transfer, continuous improvement of water management related know-how, and to promote innovation.

Products, services, innovative solutions

Our goal is to build an independent professional network based on the world-wide recognized Hungarian professional water knowledge and experience. Providing a professional platform for everyone who feels responsible for our environment and waters. Connecting people to share knowledge, experience and know-how about the most pressing water challenges and innovative solutions. Developing, providing and promoting best practices and water-related international frameworks and standards, supporting transitions to sustainable practices.

Our values are:

- ➔ Inclusiveness: we are inclusive and embrace the diversity of our membership and participants, bringing together people from around the water sector and from a wide range of professions who are concerned with the future of water.
- ➔ Science & Practice-Based: we are science and practice-based, exploring the frontiers of science, technology and practice and bringing to practice innovative solutions for urban and basin-wide water and sanitation challenges.
- ➔ Service Oriented: we provide outstanding services that support and inspire our members, participants, partners and others and help them achieve shared goals.

References

- ➔ Knowledge transfer and sharing, hundreds of events on national and international level.
- ➔ HWA national conferences (an annual event, which has been organized for more than 20 years).
- ➔ Presentations at Bulaqua, Renexpo, IFAT Eurasia, IE Expo, ASEM Water Seminars, Wasser Berlin, Professional Workshops of HWA, etc.
- ➔ Dynamic Cost Comparison (DCC) methodology: developed to prepare well-established professional decisions through applying the economic principles of cost-efficiency and sustainability related to the development of waterworks in practice.
- ➔ Developing The Guidelines of the Public Procurement Authority on Life Cycle Costing: providing a methodological, procedural and legal framework for the use of LCC in public procurement procedures.

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HUNGARIAN WATER TREATMENT CLUSTER



Water, wastewater, groundwater, stormwater

The Hungarian Water Treatment Cluster has more than 10 years of professional experience in the water industry. Our partner companies range from small engineering companies to a large enterprises with more than 100 years of experience. We maintain strong relationships with Hungarian and international professional organizations, universities and colleges.

Our activities include planning, implementation, production, operation, services and consultancy (technical and economic). The employees of the member companies comprise a variety of professions: planners, engineers, chemical engineers, IT experts, economists, international counsellors, controllers, accountants, legal, procurement, logistics, Environment, Health and Safety, HR and PR. In our projects we can also involve the professionals of the universities and colleges with whom we have Memorandum of Understandings.

We offer tailor-made solutions for key water issues; our services include trenchless public utility reconstructions, risk management, project management, change management, consulting, mobile water purification systems, non-revenue water reduction, trenchless water-loss reduction, well drilling, water resources research, workforce management.

The potential partners of the Hungarian Water Treatment Cluster are water and wastewater utilities, private companies and local governments.

- ➔ The planning and the implementation of a water treatment plant with a capacity of 10,000 m³/day and the related water distribution network in Vietnam.
- ➔ The development of a high-level IT Strategy at the Azerbaijani Waterworks and making a feasibility study about introducing workforce management
- ➔ Preparation of technical condition assessment and catalogue of measures to improve supply for the drinking water network of the city of Vlore

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Sector and subsector

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Products, services,
innovative solutions

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Companies



Civil engineering, water management (drinking and wastewater management), structural engineering (water towers)

AGM Beton Ltd was founded in 1997. The Company produces reinforced concrete pipes on its own production site and has significant construction activities using its pipes and other precast reinforced concrete products in both the Civil and the Structural Engineering areas.

By 2013, AGM developed into a strong medium-size family business with a solid background. Thanks to its high innovation potential, it is the manufacturer of reinforced concrete products in the highest available quality in Europe; its reinforced concrete products have been sold in four European countries and another five countries overseas.

The Company's mission/vision is to become the market leader in Hungary in the field of large-diameter pipe production and in the manufacturing of high value objects of unique reinforced concrete elements meeting special requirements in the areas of Water Management, Structural and Civil Engineering.

AGM Beton Ltd is committed to manufacturing and constructing reinforced concrete products that are technically justified, meeting the given customer requirements and fulfilling the highest quality criteria in the fields of Structural and Civil Engineering.

AGM is specialized in the production of ROCLA pipes. These reinforced concrete pipes are widely used in the areas of sewerage and waste water treatment (pump stations). Until 2005 the ones used for the main collecting pipes were almost exclusively those with diameters over 800 mm of this product group.

ROCLA pipes are ideal for constructing: low pressure and gravity sewers, road and railway water culverts, vertical shafts, waste water and rain water pump shafts, shutoff shafts, oil and grease traps, wells.

According to their geometry: spigot and socket joints, cylindrical, pipes for jacking (ideal to build pipelines in cities or under highways without the need to completely close down traffic).

The Company owns several patents widely used in water management in general: AQUA-SEAL technology for building huge basins/reservoirs; POLIBET technology - a combination of the reinforced concrete tube and the fibreglass reinforced polyester lining tube (their hydraulic properties, wear and corrosion resistance make them ideal for waste water shafts where conditions for the formation of biogenic sulfuric acid exist and also for the renovation of old shafts).

- 2018 Value and Quality Product Award for reinforced concrete tunnel elements for hydraulic jacking technology
- 2016 Hungarian Quality Product Award for water towers
- Water towers between 100-500 m³ built in Hungary from 2015 onwards
- Telecommunication transmission towers built for Ericsson Sweden erected in Sweden, China, Sudan, Egypt, India and Saudi Arabia
- 2018 Rainwater reservoir for Ferenc Puskás Stadium in Budapest
- Collector well elements providing the drinking water supply of Budapest

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AGRIAPIPE PIPE CLEANING, BUILDING AND SERVICING LTD



Water testing, maintenance (cleaning and restoration of water and pipeline systems without digging)

Agriapipe Ltd was established in 2007. The main scope of the activities of the company has always been the testing, cleaning and restoration of pipe systems without having to dig. Our activities are not confined to Hungary, we carry out work in the neighbouring countries as well. Our subsidiary companies are located in Germany and Kazakhstan.

The annual revenue of the company was 5 million euros. We work with a staff of 30 employees. Besides using current technologies, our aim for the near future is to introduce and use new procedures available on the market.

The restoration of pipe systems without digging improves the optimal maintenance and operational safety of the water pipes.

The occurrence of major leakage can be reduced in the event of unexpected failures.

No-dig technologies, unlike digging procedures, significantly decrease the damaging effects on the environment (dust, noise, etc.). CO₂ emissions are favourably reduced, and therefore, the technology is environmentally friendly.

Our main customers are primarily waterworks companies, local government offices and industrial areas. When restoring sewage systems, such technologies offer similar advantages. Another important factor is decreasing the amount of water running off or leaking from the pipeline systems, therefore, the impact on the environment is favourable.

Our customers:

- Regional and county waterworks companies
- Borsodchem Ltd
- Budapest Sewage Works Pte Ltd
- MOL Plc. Biocomponent Procurement
- TVK Plc

Main references:

- 2008-2011 Yekaterinburg, Russia: restoration of drinking water systems with lining technique
- 2011-2018 Veszprém: lining of drinking water and sewage pipes
- 2009-2018 Budapest: lining of sewage systems, restoration of shafts
- 2010-2016 Budapest: restoration of gas mains
- 2009-2018 Szeged: lining of drinking water pipes and sewers
- 2010-2012 Astana, Tengiz, Aktau (Kazakhstan): restoration of sewers with lining
- 2013-2015 River Berettyó: restoration of underdamp lines with lining technology
- 2015-2016 Budapest, Pozsonyi Street: restoration of drains with SPR technologies

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Sector and subsector

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AQUA CONSTRUCT LTD



Water treatment (drinking and sewage water treatment),
civil engineering (water utility), consultancy

The company was founded in 1990 by Hungarian water engineering and water management companies. Its activities were mainly focusing on the planning, development and construction of water facilities, with the implementation of different water treatment and purification technology processes. Between 2007 and 2017 most of its projects were applied as parts of different specialized policy programs financed by EU funds. Besides construction and planning, an extended scope of services were added to the activities of the company. After almost 30 years of successful and continuous activity, and hundreds of successfully completed projects, implemented under the same management since its establishment, the expert staff of Aqua Construct Ltd provides innovative solutions for its future partners.

Main services of the company in engineering services, engineering planning and consultancy cover the following areas:

- Completion of necessary professional tasks related to construction investments funded by relevant EU programs, including the preparation of comprehensive documentation for the tendering process of building contractors.
- Engineering planning of building and construction designs of different local and regional water supply systems, rainwater collection systems and sewage networks together with the connecting structures (hydraulic works and traffic systems), both for green field investments or by reconstruction of existing systems.
- Engineering design of water treatment and sewage purification units with the implementation of the necessary technology.
- Complex general contractor – including special engineering – services from water catchment to water supply and to the construction of sewage systems, diverting used water to the designated reception facilities.
- Implementation monitoring of EU-funded construction and development investment projects by expert engineers (from design to commissioning).

Technical design of construction and development projects funded by the Cohesion Fund of the EU for facilities of drinking water quality increase, sewage water collection and diversion: around 30 projects between 2007 and 2014 (e.g. Blue Water drinking water quality increase project, Veresegyház and vicinity project, Lajosmizse and vicinity project, Kalocsa and vicinity project).

Implementation design of sewage water diversion, collection, purification projects within the Széchenyi 2020 Program, funded by the Cohesion Fund of the EU, e.g. projects in Hegyfalú, Vasszilvág, Szombathely, Nagyrábé and Madaras-Katymár.

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AQUACUST WATER-LOSS ANALYSIS COMPANY LTD



Civil engineering, drinking water (water-loss analysis)

The main profile of the AQUACUST Company is instrumental water-loss analysis, surveying, tracing and localization of hidden leakages and pipe breaks measured by specialized measuring cars and instruments. Our goal is to reduce water-loss in water supply networks, keeping water-loss of water utility companies, industrial sites and private properties at an acceptable minimum level.

Our company was formed at the end of 1995, from the Budapest Waterworks' outsourced Loss measurement group founded in 1983.

Our company guarantees a 95% hit rate accuracy as a result of our staff's specialized technical training, decades of experience and due to the use of the latest technologies available in the industry.

References attesting the quality of our company's services can be found at almost all major Hungarian water service companies, water-loss detection services and education, in-service trainings.

From 2016 we started trading SEBA KMT leak detection instruments. We also deal with the development of new test methods.

Key results (1985 - 2018):

- ➔ Length of all surveyed water mains: over 25,000 km
- ➔ The number of defects found: over 15,000 pieces
- ➔ All water-loss found by leakage detection: over 14,500 m³/h
- ➔ All water-loss found by leakage detection: over 127,000,000 m³ (on yearly basis).

AQUACUST's main profile consists of instrumental water-loss analysis, surveying, tracing and localization of hidden leakages and burst pipes.

Most important partners:

- ➔ Waterworks (regional and local)
- ➔ Industrial partners
 - Power Plants
 - Oil refineries
 - Chemical industries
 - National Railway Service Company
 - Industrial areas / sites / parks

Strategic cooperation framework agreement (waterworks)

- ➔ Water-loss analysis and leakage detection services
 - BUDAPEST WATERWORKS ZRT.– Budapest and its supply area 1996-2003; 2014-
 - DMRV ZRT. (Regional Waterworks) – Vác and its supply area – 2013-

Yearly service agreements (waterworks)

- ➔ Water-loss analysis and leakage detection services
 - BORSODVÍZ ZRT.
 - DEBRECENI VÍZMŰ ZRT.
 - DRV ZRT. (REGIONAL WATERWORKS)
 - FEJÉRVÍZ ZRT.

- HEVES-MEGYEI VÍZMŰ ZRT.
- PANNON-VÍZ ZRT.
- SOPRONI VÍZ- ÉS CSATORNAMŰ ZRT.
- VASVÍZ ZRT

Service agreement (industries)

- ➔ Leakage detection services
 - MVM PAKSI ATOMERŐMŰ ZRT.
 - MOL NYRT.
 - BORSODCHEM NYRT.
 - MÁV ZRT.
 - CHINOIN ZRT.
 - HANKOOK TIRE Magyarország Kft.
 - VIDEOTON Industrial Park

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Sector and subsector

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AQUAPLUS WELL DRILLING, CONSTRUCTION AND THERMAL ENERGY LTD



Sector and subsector

Civil engineering, exploring and exploiting geothermal energy, drilling thermal water well

About

AQUAPLUS Well-Drilling, Construction & Thermal Energy Ltd was established on 15 September, 1989. The owners are Hungarian individuals.

Our company has an Integrated Management System according to ISO 9001:2015, ISO 14001:2015 and BS OHSAS 18001:2007 (MSZ 28001:2008).

By operating the three systems as an integrated management system, covering all fields of our activities, has been developed to ensure compliance with customer's and client's expectations.

Products, services, innovative solutions

Main characteristics:

- ➔ Exploring and exploiting geothermal energy and constructing facilities to utilize it in order to replace conventional energy supplies;
- ➔ Designing, constructing and operating thermal-water-based spa centres for leisure and medical purposes;
- ➔ Designing, constructing and operating hotels and camping sites;
- ➔ Designing, drilling, and repairing deep-drilled wells of potable and thermal water with performance guarantee;
- ➔ Participating in target programs on research, development, and protection of potable water bases;
- ➔ Designing and executing water treatment equipment (iron, manganese, ammonia, gas extractor and chemical dispenser).
- ➔ Designing, executing and operating water supply systems for companies or enterprises built on their own water source.
- ➔ Our company owns 5 pcs drilling rigs which are capable to drill from shallow monitoring wells to 3,000 m deep thermal water wells (production and reinjection as well).

Our potential partners in case of thermal wells are:

- ➔ Local governments
- ➔ Thermal baths
- ➔ Agronomical participants (greenhouse heating)
- ➔ Regarding thermal wells, we are able to construct complete geothermal systems with significant references.

Our potential partners in case of cold water wells are:

- ➔ Public supply waterworks
- ➔ Mineral water companies
- ➔ Industrial companies

References

Geothermal systems:

- ➔ Domestic hot water and heating system in Hódmezővásárhely 1997-1998;
- ➔ Geothermal utility works in Kistelek 2003-2007;
- ➔ Geothermal system in Barcs 2012-2014

More than 800 pcs well drilling:

- ➔ Wells for public supply waterworks

Tourism (construction and operation):

- ➔ Thermal Spa Siklós 2008-2010;
- ➔ Training Pool Mohács 2006-2007;
- ➔ Thermal Spa Tamási 2010-2011;
- ➔ Thermal Bath Zalaegerszeg 2005-2007;
- ➔ Four-stars hotel in Siklós (44 rooms) 2008-2010;
- ➔ Hotel in Esztergom (95 rooms) 2008-2016;
- ➔ Aquatherma Thermal Village in Zalaegerszeg 2003-2004

Contacts

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AQUAPROFIT ENGINEERING, CONSULTING AND INVESTMENT CO.



Complex water management, surface water, groundwater, drinking water, natural mineral water, R&D

AQUAPROFIT is a Hungarian owned SME, established in 1994 by Mr. Tamas Nadasi and Mr. Peter Udud who, since then, have been the Chairman of the Board and the CEO of the company, respectively.

The company provides consultancy, engineering, management and construction services in the fields of Water, Environment, Tourism and Regional Development and Energy. Due to its excellent staff composition - more than 50 employees - made up of water engineers, hydrogeologists, geologists, landscape architects, environmental and civil engineers, economists, Aquaprofit Co. is one of the market leaders of water management and environmental protection in Hungary. Aquaprofit Co. has extensive experience in developing, managing and assisting international collaborative projects (Europaid, IPA, PHARE CBC, CIP-IEE, FP7, LIFE+, GEF, etc.).

The headquarter is located in Budapest, supported by 4 additional regional offices.

Our client list includes the European Commission, national and local governments, clusters and state-owned companies as well as private enterprises and engineering companies. Innovation of sustainable water solutions is the focus of the company's Research & Development activities.

Our philosophy: 'Care of water from nature to consumers'

Environmental and Water Management

- ➔ Programs to assess, evaluate and improve drinking water quality (design, engineering and implementation, including construction)
- ➔ Environment and water source protection, sustainable water use (feasibility studies in environment and water source protection)
- ➔ Research and development of water reserve capacity
- ➔ Hydraulic construction engineering
- ➔ Waterworks and water supply systems
- ➔ River and floodplain rehabilitation
- ➔ Renewable energy sources - engineering
- ➔ Geothermal energy
- ➔ Regional Development

Drinking water quality improvement

- ➔ EU funded national program in the Hungarian Great Plain (focusing on removal of arsenic, iron, manganese and ammonium) – Engineering and construction of water works and water supply system in more than 70 settlements

Complex water management

- ➔ Surface water detention and drainage project in the territory of river Drava
- ➔ Kis-Balaton Water Protection System

Development and protection of natural mineral water sources

- ➔ Kékkút Mineral Waters Co.

Research & Development & Innovation

- ➔ Sustainable water solutions in water treatment
- ➔ Monitoring of pharmaceuticals in the water system and research of filtration possibilities (NVKP R&D project)
- ➔ Complex water purification and supply technology in modular container system with solar panels – IWAT (Intelligent Water Aid Technology)

Environmental protection

- ➔ LIFE+ Eastern-Bakony
- ➔ LIFE+ Hungarian Little Plain
- ➔ Carpath Climate Change Framework Project

Awards

- ➔ Best LIFE+ Project Award 2018 (Brussels)
- ➔ Provident Social Responsibility Award 2016 (Hungary)
- ➔ Environmental Protection Innovation Award 2016 (Hungary)



Sector and subsector

Environmental engineering, consultancy, asset evaluation, economic planning

About

BDL: in service of sustainable and affordable water management.

As an environmental engineering company, we are committed to offering our partners personalized, systematic solutions in the water industry. We conduct our activities with a special devotion to professionalism and environmental protection in the fields of drinking water purification, wastewater treatment, stormwater management and environmental remediation. We are present from the beginning of solving environmental issues: from the technological and environmental assessment, through the determination of development directions, the preparation of investment concepts and tender plans, classic civil engineering designing, until trial operation. The professional knowledge and experience of our staff as well as our partners ensures that our firm is not only able to cover the full technical fields related to design (environmental-, control-, civil engineering), but it is also able to navigate the complex financial and economic dimensions of water utility services and investment planning and implementation. Due to our diverse professional know-how, we consider technical, ecological, and economic aspects to find the most sustainable alternatives which support our clients in optimizing their decision making.

Products, services, innovative solutions

- ➔ Project preparation activities: civil engineering, economic planning, technical and economic consultancy, option analysis, asset management, technical evaluation.
- ➔ Civil engineering: we are specialized in the design of water utilities. We carry out the planning of the networks point-like, plant-like facilities and take part in reconstruction planning.
- ➔ Activities: technical condition and environmental assessment (eco-audit), concept design, conceptual authorization, management of licensing processes, preparation of tender documents, detailed design, construction plans.
- ➔ Economic planning, technical and economic consultancy
- ➔ Professional economic planning services of our company facilitate successful investments and efficient operation to improve cost-efficiency and supports the appropriate resource-allocation.
- ➔ LCC, DCC, CBA, Financial Planning
- ➔ Water utility asset evaluation
- ➔ By developing MIAD (Multipurpose Infrastructure Assessment Database) software and the integrated asset evaluation methodology, we set out for our objectives the creation of basic conditions of an effectively sustainable and secure water utility services, as well as a utility management responsible for the preservation of the value of our water utilities.

References

- ➔ Preparing the design documentation of a 10,000 m³/d capacity drinking water-purification plant in Vietnam. Quang-Binh province, Vietnam, 2017
- ➔ Preparing the design documentation of Kumasi wastewater treatment plant, municipal wastewater-treatment plant. Kumasi, Ghana, 2019-2020. 1,000 m³/d / serving 100,000 people / liquid waste treatment
- ➔ Preparing The Integrated Public Water Utility Database of Hungary. To provide a nearly uniform and high quality service, we created a previously non-existing national database, which provides the basis for well-grounded decision making on sectoral strategy. Setting up an integrated operating and IT system, creating a single, modern, stable database to help regulatory work. Hungary, 2020

Contacts

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Circular economy, sustainable urban development
water treatment, wastewater treatment, water reuse

By combining the intelligence of people and nature, Biopolus is engineering urban ecosystems to close water, energy, food, and waste loops through a network of decentralized urban metabolic hubs. A new class of buildings will house these hubs for urban circularity. Through smart, functional engineering and design, Biopolus has created the BioMakery, a biofactory for the future city. The BioMakery is powered by Biopolus MNR technology, which uses biological engineering to harness clean water, energy, nutrients, and minerals from wastewater and organic waste. Supplemental modules for community functions and urban farming, can also be added to create an open and integrated space for sustainable urban living.

- **BioMakery:** An urban metabolic hub, to integrate circular urban infrastructure and technology with open innovation, helping cities transition from their current linear system of consumption and waste, to a sustainable and regenerative circular model. The BioMakery was created based upon the principle of water-based urban circularity, where energy, food, and waste systems are built around a regenerative and sustainable water cycle.
 - **Metabolic Network Reactor (MNR) technology:** Special biofilm- and multireactor-based bioreactors using engineered ecosystems for water and wastewater treatment and recycling. MNR uses natural plant roots and Biopolus patented synthetic roots as biofilm carriers.
 - **Metabolic mapping:** Strategic consulting for cities and townships providing useful insight and advice for their environmentally and economically sustainable development, based on the assessment and mapping of present and predicted water, energy, food and waste flows.
 - **aero.green:** Controlled environment urban agriculture technology developed by Biopolus. It is a super-intensive urban farming system using fully controlled aeroponic and hydroponic technology to grow high value plants for food, feed, pharma and cosmetics purposes.
-
- **Koningshoeven (NL), 2018:** Integrated long-term solution for water management with a visitor's centre for community education at the Koningshoeven Trappist Abbey and Brewery.
 - **Shenzhen (CN), 2018:** Site-specific and aesthetically pleasing wastewater treatment that perfectly fits into the dynamically developing, mixed office park. (capacity: 5,000 m³/d)
 - **Yangxin (CN), 2018:** Small footprint and highly efficient wastewater treatment that meets effluent limits in a sensitive environment and enables future growth. (capacity: 15,000 m³/d)

Awards:

- 2018 Dutch Water Innovation Award Recipient
- 2019 Circular Economy Award by Dutch Ministry of Infrastructure and Water Management
- 2019 Interior Landscaping of the Year Top Three Finalist

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Sector and subsector

About

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BONAVENTURA GOLD LTD – PRIMUS MINERAL WATER



Sector and subsector

Drinking water bottling, natural mineral water

About

The Bonaventura Gold Ltd is specialized for bottling mineral water and processing mineral water based products. Our flagship product is the brilliant fresh tasting Primus mineral water from the Carpathian basin, rich in minerals in the heart of Europe. This 17,400-year-old water gushes from the 452 meter deep karst, created 235-239 million years ago during the Triassic ages. This untouched, extraordinary good quality of water contains valuable minerals as calcium, magnesium, hydrogen carbonates, sulphates. Being unique is insured by the silica content which is the pledge of eternal youth stated by scientists. The water is bottled for our customers as it was saved by the nature, without any water treatment. The Primus mineral water is slightly alkaline (PH=7.53) tasting neither salty nor bitter, but comfortably natural and neutral.

Products, services, innovative solutions

PRIMUS natural mineral water comes from ice-age glaciers in the Carpathian Basin, in the heart of Europe. As the ice melted, water seeped 452 meters underground to a layer of karst porous rock. There it waited for nearly 18,000 years. It took us a decade of research to locate this unique water source. This magnificent water was purified by nature and protected from contact with humans, microbes, even air. It does, though, contain calcium, magnesium, silicon, and other minerals vital to human health, leached from the surrounding 235-million-year-old karst. Its pH is slightly alkaline, like the human body itself. The water needs no treatment. Nothing to add. Nothing to remove. We bottle it on site, from bottles made just before use and rinsed only with the mineral water itself. Globally, there is a high demand for natural mineral water today because of health-consciousness. The quality, chemical content, and the package of Primus mineral water are positioning the product in the premium category. Our potential customers and partners are importers and wholesale distributors interested in this category of mineral water. We also work with distributors for premium food chains, hotels, restaurants, spa, coffee shops and catering chains, airlines etc.

References

Awards:

- Count Széchenyi Foundation Board award for the best company in the category of innovation.
- 4th Ghanaian-Hungarian business forum in Royal Palace, Gödöllő, 21 November, 2018
- The first CIIE Expo in Shanghai, 5-10 November, 2018. The CEO/owner of Bonaventura Gold Ltd, Mr. László Regőczy was a member of the businessman delegation organized by Bank of China.
- Hungarian-Turkish business forum Mariott Budapest Hotel - Budapest, 9 October, 2018
- The Vietnamese presidential flight was launched from Budapest Airport with Primus on board, 12 September, 2018
- China brands fair 31 May-02 June, 2018, Budapest
- Singapore Esplanade - Theatres on the Bay ."Period In between Moments" with Primus mineral water, special thanks to Adam Gyorgy, Steinway pianist, April, 2018
- Meeting of Prime Minister of Hungary, Viktor Orbán and Mr. Jarosław Kaczyński, President of Poland, and Mr. Mateusz Morawiecki, Prime Minister of Poland, 06 April, 2018
- Primus Center opening ceremony in Shananghai, 15 May, 2017
- Seoul Food & Hotel Expo, 16-19 May, 2017
- CEEC expo Ningbo, June, 2017
- Inauguration of Mr. Donald Trump, President of USA, January 2017

Contacts

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BUDAPEST SEWAGE WORKS PTE LTD



Fővárosi
Csatornázási Művek Zrt.

Sewage water (sewer network, wastewater treatment, bioenergy, flood and inland water protection)

The almost 170-year-old Budapest Sewage Works Pte Ltd (BSW Pte Ltd) is the largest environmental service provider in Hungary. The company operates a network of more than 6,000 km, 191 pumping stations, two wastewater treatment plants (with a total nominal capacity of 280,000 m³/day) in Budapest, the capital with a population of 1.75 million inhabitants. In case of floods, it is also responsible for flood protection works along an approximately 90 km long embankment section of the River Danube.

Our company is majority owned by the Municipality of Budapest and has gained an outstanding professional experience since its foundation, building upon the globally acknowledged technological expertise of our minority owner Veolia S.A. over the last 20 years.

BSW Pte Ltd, as the largest environmental management company, considers its mission to lead the establishment of environment friendly technologies and developments, notably the production of biogas through its activities and apart from its wastewater collection and treatment core activities.

The main services of Budapest Sewage Works Pte Ltd, for consumers in Budapest:

- ➔ Drainage of wastewater and rainwater,
- ➔ Wastewater treatment,
- ➔ Bioenergy production,
- ➔ Organic waste management,
- ➔ Flood protection,
- ➔ Camera sewer inspection.

Based on the long tradition of modern and efficient operational practices and professional experience, BSW Pte Ltd offers for its potential business partners consulting services:

- ➔ Camera inspection, cleaning and status assessment of the existing sewer networks,
- ➔ Wastewater treatment (mechanical and biological treatment of wastewater),
- ➔ Romania, Bucharest (2010): status assessment of public sewers through camera inspection
- ➔ Kazakhstan, Astana (2011): sewer cleaning, water control and water drainage
- ➔ Bulgaria, Sofia (2013): status assessment of public sewers with camera inspection
- ➔ Australia, Sydney (2011): development of biogas plant solutions
- ➔ Scotland, Edinburgh (2012): biogas flow analysis of wastewater treatment plant, development proposals

- ➔ Sewage sludge utilization (biogas production and compost preparation),
- ➔ Responding to the challenges of the urban environment, protection against flood and inland waters.

Together with Hungarian and local partners BSW Pte Ltd is determined to take part in complex investments involving design and construction of:

- ➔ State-of-the-art, energetically self-sufficient wastewater treatment plants operating in a cost-effective manner thanks to sewage sludge utilization (biogas production and compost preparation) and waste management solutions
- ➔ Sewer networks with pumping stations and household connections

- ➔ Kazakhstan, Rieder, Zhiryanovsk (2013): preparation of investment proposals with economic calculations, professional supervision of the implementation of wastewater treatment technology
- ➔ Ukraine, Kiev (2012): inspection of operating wastewater plant, proposal of technical solutions with economic calculations

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Sector and subsector

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Contacts



BUDAPEST WATERWORKS PLC

Drinking and wastewater, public utility services, water management, design, engineering

About

Budapest Waterworks, founded in 1868, supplies 2 million people with healthy potable water or sanitation services in Budapest and in the conurbation area. The core activities of the 151-year-old Fővárosi Vízművek Plc (Budapest Waterworks) include potable water treatment, potable water production, pipe network operation and potable water services, as well as sewage treatment and the related services, activities which are supported by world standard technologies. The design and construction knowledge resting on operational experience and the extensive practice gained in this field are indispensable in helping us develop and operate the sizeable water utility assets we manage long-term, thus satisfying even the highest expectations; and to reconstruct them to meet the expected level of efficiency. The excellent Hungarian engineer training system, our experienced and knowledgeable technical professionals provide the Company with a very good and reliable background to the technical development projects on which it has embarked in the recent years. The company was recognized with the 'Member of the Leading Utilities of the World Network' title and received the Gold Standard for utility performance award.

Products, services,
innovative solutions

Our Company not only designs and partly implements its own projects with its own capacities and with the involvement of subcontractors, but also accepts external project orders globally. Developing from a socialist city water utility to an internationally recognized regional company operating water and sewage systems, we are ready to share our experience in restructuring operations; implementation, integration and development of cutting-edge technologies; construction projects, and in reorganisation and process management of customer service processes and non-revenue water management. Besides offering our expertise to potable or wastewater supply companies, utility companies, as well as municipalities, governmental and nongovernmental institutions searching for ways to reform and improve their water-related utility services, we can provide operational expertise, consultancy and background to water utility related infrastructure development and construction projects. We developed our mobile water purification systems, which are usable both for shorter periods, for example in the event of a service failure or a natural disaster, and for longer periods providing smaller settlements, refugee camps with healthy drinking water.

References

- Indonesia / Construction of water treatment plants in 36 locations (in progress).
- Sri Lanka / Improvement of two water treatment plants supplying the capital city with potable water.
- Azerbaijan / Introduction of electronic workforce management system with a ten-year IT strategy of the state owned water utility company, AZERSU.
- Albania / Technical development program for the Tirana Waterworks (in progress).
- Serbia / Co-developing a Financial and Operational Performance Improvement Program (FOPIP) financed by the EBRD to improve the financial and operational efficiency of certain areas of Belgrade Water and Sewerage. (in progress)
- IAWD – World Bank: Business expansion for water utility companies in the West-Balkans.

Contacts

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CONTROLSOFT AUTOMATIKA LTD



Electrical engineering, industrial automation and process control systems, software development

Controlsoft Automatika Ltd has been a dominant player of the Hungarian industrial process control market since 1991. 85% of its activity is realised in the environmental industry, where Controlsoft is the market leader. The company focuses on electrical and process control turn-key realisation of wastewater treatment plants, sewer networks, water treatment plants, water distribution networks and environmental monitoring systems. The company also deals with IT and software development.

Focusing on the market requirements, the company has developed a so-called webSCADA process control system that is based on open industry standards. The product has become one of the dominant SCADA softwares for the domestic and regional market within a few years.

Recognizing the needs of domestic water utility companies, Controlsoft has developed an integrated technical information system, which covers the entire technical operation of the company.

Controlsoft has carried out several successful projects beyond the borders of Hungary, recently in Poland, Russia, Romania, Albania, the Netherlands and Cuba; and there is a demand for their services in Spain, Germany and China as well.

Specializations:

- ➔ Mechatronics, manufacturing of machines
- ➔ Water and wastewater treatment
- ➔ Water management systems
- ➔ Airport systems
- ➔ Hail damage repelling systems
- ➔ District heating & heating systems
- ➔ Automation within the car manufacturing industry
- ➔ Oil & gas industry, utility grids
- ➔ Street lighting system
- ➔ Digital agriculture, irrigation
- ➔ Building electricity, electrical installation works, automation
- ➔ Software development

Services:

- ➔ Electrical general construction work (distributors, switchyards, cabling)

- ➔ Albania, webSCADA in Shkodra
- ➔ Bulgaria, Vratsa WWTP, SCADA
- ➔ China, Shenzhen, FOXCONN Factory
- ➔ China, Shenzhen, Silverstar HiTech Park
- ➔ Cuba, mobile water treatment unit
- ➔ Germany, Bremen, Mercedes-Benz
- ➔ Hungary, Budapest Airport, harmonized alarm system
- ➔ Hungary, National hail damage repelling system
- ➔ Hungary, South-Pest WWTP, electrical and process control works

- ➔ Industrial automation (PLC programming, SCADA, process instrumentation)
- ➔ Implementation of mechatronic systems (packaging, labelling, automation of assembly lines)
- ➔ Software development (webSCADA, iMIR, unique software)
- ➔ Design (electrical and implementation plans)
- ➔ Maintenance (maintenance of electrical and process control systems)
- ➔ webSCADA is a Hungarian developed, online-based software that ensures reliable, standardized, scalable, distributed and industrial software solutions.

Main customers and partners: national governments, municipalities, water and wastewater utility companies, airports, various industrial sectors such as oil & gas, pharma, electrical, nuclear, food & beverage, car manufacturing industries.

- ➔ Hungary, MOL Plc., WWTP at the Danube Refinery
- ➔ Hungary, Lake Balaton monitoring system
- ➔ Hungary, Schneider-Electric logistics centre, box dispensing, grading, conveyor system
- ➔ Romania, Băile Tuşnad, Iasi, Petrosani, Valea lui Mihai WWTPs, SCADA System
- ➔ Russia, Yekaterinburg WWTP, SCADA
- ➔ The Netherlands, Koningshoven Brewery WWTP, SCADA

Sector and subsector

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Products, services, innovative solutions

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Sector and subsector

Design of wastewater, stormwater, drinking water, district heating and gas infrastructure

About

Főmterv was established in 1950 and has successfully combined the values of many years of experience and engineering tradition with the ability of continuous technical renewal and adaptation to changing markets in the past almost seven decades. Our corporate culture, based on traditions, has made it a natural requirement for all young new employees to think comprehensively and have an understanding of the whole design process. A specialist staff in all technical areas, which is accomplished, competent and experienced, is a key factor of our successful projects. The whole design process, from conceptual designs and system designs to the preparation of detailed designs, is carried out in-house. The complexity of Főmterv ensures that all engineering areas involved in the construction of a facility can be prepared within a single design workshop.

**Products, services,
innovative solutions**

FŐMTERV's services include every step from feasibility studies, conceptual design to making detailed design documentations. In the area of utilities, in addition to the design of water, sewer, gas, district heating and electrical networks, public lighting and mechanical engineering systems complement the range of design areas. Amongst our main customers, both state owned organizations, municipalities, utility operators and also private investors can be found.

We offer complex services in high quality and a fast, flexible and precise design process, using up to date hardware and software environment. Besides the above mentioned disciplines we also design complex transport facilities. In this area, in addition to complete road, railway and traffic engineering design, also transport systems are devised conceptually and network analyses and simulations are carried out as well.

References

- Budapest Complex Integrated Sewerage Project (wastewater system design, Budapest, 2006-2016)
- Sewerage programme for South Buda and connected municipalities (wastewater system design, Budapest, 2006-2014)
- Construction of the stormwater side of the Ferencváros Pumping Station (Budapest, 2009-2010)
- South Stream natural gas pipeline (FEED study, 2013-2015)
- 2xDN 600 district heating main connecting the HUHA, Újpest and Újpalota district heating areas (district heating, Budapest, 2013-2014)
- Paks Nuclear Power Plant utility relocation plans (2015)
- DN1200 water main design (Budapest, 2017-2018)

Contacts

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GEOGOLD KÁRPÁTIA LTD



Geological, hydrogeological and environmental services, drinking water research, geophysical survey

GEOGOLD KÁRPÁTIA Ltd provides services in geological, hydrogeological and environmental projects and has gained extensive experience in the field of shallow geophysical surveys and water research. As the legal successor of GeoGold Kárpátia LP, founded in 2002, the company started its activities in 2005 with highly experienced geologists and geophysicists. We have developed excellent relationships with Hungarian universities running Geological and Geophysical courses; some of their most respected experts are regularly involved in our projects.

The company name suggests that from the very beginning we have aimed to work not only in Hungary, but also in the neighbouring countries. We have been involved in the preparation and implementation of various EU-funded groundwater research projects.

Currently, beyond the borders of the Carpathian Basin, with the support of the Ministry of Foreign Affairs and Trade, we are carrying out a drinking water research project in Northern Tanzania, Arusha Region. In the implementation of water research related geophysical orders, we use the latest technology, and this approach is what distinguishes us from our competitors.

Over the past ten years we have both purchased and developed geophysical instruments for water management and civil engineering services. Our most important projects are related to the research of groundwater reservoirs and the protection of their quality.

Measurements up to 100-200 m are undertaken for industrial and public water supply purposes. We have been involved in the diagnostic investigation of more than 50 vulnerable water resources. These methods are also suitable for the examination of karstic formations. The advantage of geophysical investigations is that we can provide fracture or tectonic structure maps of sedimentary or karstic areas in a cost-effective way.

We have used geoelectric, electromagnetic and seismic geophysical methods in water research projects in Hungary, Romania, Slovakia, Ukraine and Tanzania. These methods can be used not only in Central European countries where water management practices are relatively advanced, but also in regions with semi-arid climate.

Uneven distribution of the precipitation and the unpredictable floods are challenges related to climate change. Our innovative MODRES Pro1 geoelectrical instrument development is designed to offer solution to forecast dam stability problems.

- ➔ Diagnostic investigation and Security plan of water resources of Drávafok, Drávakeresztúr, Lúzsok, Sellye; location: Hungary 2018-2019
- ➔ Preliminary Feasibility Study for water investment in Malambo (Northern Tanzania) – financed by the Hungarian Ministry of Foreign Affairs and Trade 2018-2019
- ➔ Nature Conservation Surveys, Investigations and Measurements under the INTERREG Project SKHU /1601 /1.1/035 financed by the EU; location: Aggtelek National Park Directorate 2018-2019
- ➔ Groundwater procurement study for Hamburger Hungaria Ltd 's Paper mill (30,000 – 35,000 m³/day); location: Dunaújváros 2019
- ➔ Establishment of long-term drinking water supply strategy and monitoring system in Ier Region (Romania) INTERREG Project HURO/1101/167/1.3.2.; 2013-2014

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Sector and subsector

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Products, services,
innovative solutions

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HIDROFILT WATER TREATMENT LTD

Sector and subsector

Drinking water, containerised mobile systems, demineralized water, industrial wastewater recycling

About

With over 29 years of experience HIDROFILT Water Treatment Ltd builds high quality water treatment plans at its own facility.

- ➔ Hidrofilt companies are in Poland, Slovakia, Romania, Hungary
- ➔ > 150 employees, > 70 engineers

In-house:

- ➔ Customised 3D design /process, mechanical, electrical engineering
- ➔ Manufacturing /inox, plastic, assembly, electrical workshops
- ➔ Installation, operation and operation training
- ➔ Maintenance, service, monitoring, chemicals and parts supply
- ➔ R&D department, accredited laboratory, pilot experiments

Hidrofilt is the specialist of mobile water treatment systems. Our catalogue includes more than 50 types, but we can design and manufacture equipment according to individual needs.

Products, services, innovative solutions

Certificates: Bisnode AAA, ISO 9001, ISO 14001, OHSAS, VCA/SCC, PED

- ➔ Drinking water or process water treatment from surface water, groundwater, seawater, and brackish water
- ➔ Water plans for towns and villages
- ➔ Containerized mobile water treatment systems
- ➔ Irrigation water treatment for agriculture
- ➔ Reverse osmosis desalination for industries and municipalities
- ➔ Process and product water treatment for beverages, distilleries, and food industries
- ➔ For energetic industry, power plants, boiler systems, cooling systems – water treatment, water recycle, mobile chlorine-dioxide system

- ➔ Industrial wastewater recycling, ZLD technologies
 - ➔ „Purified,, and “High purified water” for pharmaceutical industry, “Ultrapure water” for electronic industry
 - ➔ Process water and wastewater treatment for oil, gas, chemical industry
- Technologies: MMF, MF, UF, NF, RO, DPRO, SWRO, EDI, EDR, MC, FO, DAF
- References: EU, Sri Lanka, United Arab Emirates, Laos, Russia, Kazakhstan, Mexico, Serbia, USA, Iran, Ecuador, Cuba, Peru, Tunisia, Philippines
- Customers: Thyssenkrupp, GE, Linde, Givaudan, Lukoil, Flex, Dreher, Coca-cola, Nestle, Henkel, SabMiller, Pepsico, PhilipMorris, Sanofi Aventis, BD

References

Drinking water treatment:

- ➔ HidroWell water treatment systems: Ecuador/Peru - 2017, Cuba - 2018, Tunisia - 2019
- ➔ Sri Lanka - Colombo - 2017
- ➔ Hungary - Miskolc - 2016

Demineralized water treatment for industries:

- ➔ Nuclear power plants: MVM Paks – Hungary - 2018, PGE Górnictwo i Energetyka S.A. - Poland - 2018
- ➔ Mixed bed system in Iran: AMV Chemie Technologie GmbH. - 2018
- ➔ Oil and gas: MOL Group Hungary and Slovakia - 2011-2017

- ➔ Petrochemical: JSR MOL Synthetic Rubber Ltd - 2018
- ➔ Chemical: Brzeg Dolny PCC Rokita S.A. Poland - 2018
- ➔ Pharmaceutical: Richter Gedeon Plc. – Hungary - 2018, Gedeon Richter România - 2017
- ➔ Power plant in Hungary: Veolia Water Solutions and Technologies Hungary Ltd / Viresol Ltd - 2018
- ➔ Food and beverage: HELL Energy Hungary Ltd - 2018

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HIDROKOMPLEX CONSULTING ENGINEERING LIMITED LIABILITY COMPANY

HIDROKOMPLEX
MERNŐKSZOLGÁLATI KFT.

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Communal and industrial water- and wastewater treatment, water supply and sewerage systems, networks

Sector and subsector

HIDROKOMPLEX Ltd is one of the most important and most sought-after consulting engineering companies in Hungary, working mainly on the water supply and wastewater management field. The private company was founded in 1990 by the most experienced experts of the former state company VIZITERV.

About

The staffs of HIDROKOMPLEX Ltd consist of highly qualified and experienced civil, mechanical and electrical engineers working in the fields of drinking and industrial water supply and sewerage, and water and wastewater treatment and environment protection.

Quality guarantee:

- ISO 9001:2008 Quality Management System
- ISO 14001:2005 Environmental Management System
- Staff: 26 persons from that 23 engineers
- 11 hydraulic, 4 civil, 1 mechanical, 3 environmental, 4 electrical and process control engineers
- Language capacity: Hungarian, English, French, German, Italian, Romanian

The main activity field is in Hungary, but the Company and its staff have references and experience abroad:

- Algeria (water supply, water and wastewater treatment, sewage and rainwater sewerage)
- Morocco (wastewater treatment)
- Senegal (water supply, sewage and rainwater sewerage)
- Germany (guide drawing)
- Romania (water treatment)
- Indonesia and Taiwan (civil guide drawing)

Professional fields and activities:

- communal and industrial water and wastewater treatment plants
- pumping stations
- local and regional drinking water supply, networks, aqueducts
- cooling circulation systems (power plants)
- fire protection networks
- water tanks, water towers
- sewerage systems, networks, run off drainage
- process, hydraulic design (with own developed programs)
- mechanical design
- architectural, structural design
- hydraulic constructions
- electrical equipment, process control systems, instrumentation, automatization, remote control.

Consulting services in the abovementioned fields are the following:

- expertise
- preliminary investigations
- feasibility studies
- licensing plans
- tender documentations
- bid documentations
- detailed design
- guide drawings
- commissioning documents, trial run control
- site supervision
- technical assistance
- design control services.

Main potential customers and partners

- Hungarian and foreign government agencies
- utility companies, water and wastewater services
- local governments, municipalities
- main contractors
- industrial partners, factories in Hungary and abroad.

Products, services, innovative solutions



References

- ➔ Budapest-Csepel Drinking Water Treatment Plant – 150,000 m³/d
- ➔ Kecskemét DWTP – 1,000 + 1,500 m³/h
- ➔ Hegyk DWTP – 15,000 m³/d
- ➔ Cooling water circulation system in Mátra Power Plant
- ➔ Reconstruction and development of cooling towers in Pécs Power Plant
- ➔ Wastewater TP of Ain Defla – Algeria 8,000 m³/d; 50 000 PE
- ➔ Central WWTP Budapest – 350,000 / 900,000 m³/d, 1,633,000 PE
- ➔ North Budapest WWTP – Anaerobic sludge digestion - 2x12,000 m³
- ➔ South Budapest WWTP – 80,000 m³/d, 293,000 PE
- ➔ Szeged WWTP – 60,000 / 120,000 m³/d, 230,000 PE
- ➔ WWTP in MOL Oil Refinery, in Százhalombatta – 24,000 m³/d, 700,000 PE
- ➔ Keszthely WWTP – Sludge line 18,000 m³/d 120,890 PE
- ➔ Construction Industry Awards for the design of the:
 - ➔ Csepel PWTP of Budapest
 - ➔ South Budapest WWTP
 - ➔ Budapest Central WWTP (2)

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www.budapestwatersummit.hu

BWS 20
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HUNGARIAN WATER TECHNOLOGY CORPORATION LTD



Water and wastewater treatment technologies, automation, environmental protection, construction

About

The Hungarian Water Technology Corporation (HWTC) is a private sector Consortium comprised of three internationally recognised companies: Szabadics Civil Engineering and Construction Plc., Hidrofilt Water Treatment Ltd and Controlsoft Ltd. The Consortium is specialised in the design and complete implementation of drinking water treatment plants, construction of wastewater treatment plants, production of containerized mobile water and wastewater treatment compact units, membrane desalination plants and recycling technologies for industrial wastewater. The Consortium has references in more than 25 countries in 5 continents.

Products, services, innovative solutions

- ➔ Design and implementation of water treatment systems for public and industrial use
- ➔ Containerized water treatment units
- ➔ Leachate water treatment
- ➔ Iron, manganese, arsenic, nitrite, boron and organic matter content removal, salt content reduction
- ➔ Membrane separation technologies (SWRO, RO, NF, UF, CEDI, MC)
- ➔ Water treatment units for emergency situations and natural disasters
- ➔ Water-intake plants
- ➔ Construction and reconstruction of utility pipelines
- ➔ Municipal and industrial wastewater treatment
- ➔ Flood protection, dredging
- ➔ Hydro technical constructions
- ➔ Storm water treatment
- ➔ Fire water systems
- ➔ Construction and renovation of civil engineering structures
- ➔ Solving geotechnical problems
- ➔ Industrial process control:
 - Planning, production and installation of PLC cabinets
 - PLC programming
 - Process control system (SCADA) programming
- ➔ Process instrumentation
- ➔ Full implementation of the integrated plant control system
- ➔ Software development:
 - SCADA system
 - Technical information system
 - Portal based information system

Main customers and partners: national governments, municipalities, armies, various industrial sectors such as oil and gas, pharma, textile, electrical, nuclear, food and beverage industries

References

- ➔ Albania, webSCADA in Shkodra
- ➔ Bulgaria, Vratsa WWTP, SCADA
- ➔ Germany, Bremen, Mercedes-Benz
- ➔ Hungary, Armed Forces, 182 mobile water treatment units
- ➔ Hungary, DRV Plc, Integrated process control system
- ➔ Hungary, MOL Danube Refinery
- ➔ Hungary, Paks Nuclear Power Plant
- ➔ Hungary, Nagykanizsa WWTP
- ➔ Hungary, Samsung Ltd
- ➔ Hungary, Budapest Airport
- ➔ Iran, AMV Iran,
- ➔ Poland, Aqua Seen Sp. Z.o.o, power plant
- ➔ Poland, PGE GIEK SA, power plant
- ➔ Romania, Băile Tuşnad, Iasi, Petrosani, Valea lui Mihai WWTPs, SCADA System
- ➔ Russia, Yekaterinburg WWTP, SCADA System
- ➔ Slovakia, SLOVNAFT a.s.
- ➔ Sri Lanka, Colombo Municipal WTP
- ➔ The Netherlands, Koningshoven Brewery WWTP, SCADA

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INNO-WATER INC



Consulting, R&D in the field of environmental and water management

Inno-Water Environmental Research and Services Inc. (Inno-Water Inc.) was established by the devoted and highly recognized scientists and experts of the Budapest University of Technology and Economics in 2010.

The mission of our consultant company is to provide creative, innovative and cost-efficient solutions for environmental and water technology problems and thus to provide effective and professional, high quality engineering services for our clients. The main activity of Inno-Water Inc. is engineering consultancy and technical research and development in the fields of environmental protection and water management.

The wide range of services offered by Inno-Water Inc. cover different scientific fields, therefore by the development of our team and expert network the integration of extensive knowledge and professional fields with creating a multidisciplinary corporate attitude has been a key priority.

The main fields our company excels in are applied research, water utility network modelling and technology development.

Our clients come from a wide range depending on the nature of the projects we undertake.

For network development and modelling projects we worked with public utility companies and the nuclear power plant of Paks. Our network development projects are usually supported by inbuilt hydraulics network modelling, for which we use softwares such as HCWP, SWME, EPANET and WaterCAD.

In the fields of evaluation, monitoring and rehabilitation of natural surface waters we are usually contracted by national parks, municipalities or power plants. We evaluate environmental status based on EU WFD, develop and operate water quality monitoring systems and consult on remediation possibilities, if necessary.

We also participate in numerous research and development projects aiming at adaptability. We often work with industrial partners in designing assessment systems of their environmental impact with developing the measurement protocol and the evaluation method as well.

- ➔ Development of monitoring system of cooling water discharge of Paks Nuclear Power Plant - design of different measurement systems for large information samples and 3D measurement (2017-19).
- ➔ Leading of the Hungarian-Israeli co-funded project „SmartChlor - Developing smart equipment drinking water chlorination system with the aim of reducing public health risks and operational costs” (2017-20).
- ➔ R&D tasks in GINOP project „Innovative Utilization of Energy and Raw Material Content of Municipal Wastewater and Sewage Sludges” - developing complex new sewage treatment technologies, to utilize energy and raw material content of sewage and sludge (2017-21).

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Sector and subsector

About

Products, services,
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Sector and subsector

Building services design, design of utilities,
hydraulic engineering, wastewater treatment design

About

Our company provides individual, high quality engineering services. We represent a high degree of flexibility in the field of building services and construction engineering. Our dynamism is ensured by our highly qualified young colleagues (currently more than 50 engineers are working in our office).

A row of our foreign and Hungarian references guarantee the satisfaction of our clients. We provide a European level using the latest 3D design systems. During the design work our experience, obtained by constructor and technical supervisor, helps us to successfully solve any design challenges, in order to successfully apply the latest technological systems, and to ensure that houses, fit to the modern classification systems which are adapted to the market conditions regarding investment and operation costs, are built. The company's predecessor was founded in 1998, and since January 2001 we have an independent office.

Products, services, innovative solutions

Mobile water treatment project - Laos - 2017

The equipment has a capacity of 1,000 litres/hour. Counting with daily 10 hours of operation time and 3 litres/day/person, enough water can be produced to satisfy the needs of more than 3,000 people. We installed a tank in the container that is capable of storing 2,400 litres of clean water, thus clean drinking water can be consumed during the treatment process.

Mobile water treatment project - Papua, Indonesia - 2018

Another system was established with similar technical content, in Papua, as part of a different project.

The mobile water treatment unit can be used for treating river water, groundwater and network water not suitable for drinking, even to provide drinking water for hospitals. However, it is not suitable for making sea water drinkable. These appliances provide low-cost, quickly applicable solutions with a relatively high yield. They are especially useful in cases of sudden drinking water crises even in undeveloped areas.

These projects were implemented with the support of the Ministry of Foreign Affairs and Trade of Hungary

References

Our line of foreign and domestic references guarantee the satisfaction of our customers. We have special knowledge and experience in the design and implementation of international projects:

- ➔ IKK Water Supply Program and Small Water Treatment Plant for Water Scarcity Area – Indonesia/ Sumatra, Java, Sulawesi – 34 sites 2015-2017
- ➔ Vientiane Capital for Water Treatment Project WWTP & WTP – Vientiane, Laos – 2017- present
- ➔ Tengizchevroil - Tengiz, Kazahstan - 2010
- ➔ Nidan Cannery - Moscow, Russia - 2006

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MECSEKÉRC ENVIRONMENTAL LTD



Hydrogeology, groundwater exploration and protection

MECSEKÉRC Ltd is a state-owned company, the successor of the former uranium ore mining company of Hungary. Following the abandonment of mining in 1997, the company completed the full environmental remediation of the ore mining and milling sites and facilities. Currently, the company's main profiles are environmental projects, geological, geotechnical and hydrogeological exploration, geothermal projects and construction of underground facilities. We utilize our unique experience in mining and mine site remediation to achieve environmental tasks, with special regard to groundwater resource management and quality protection. With more than 100 skilled employees and specialists, modern field and desktop equipment, and chemical, geotechnical, geological and radiological laboratory, we focus on the challenges of protecting our environment and our valuable water reserves.

Profile/products/services:

- Drinking, thermal and mineral water reserve exploration and protection: design and achievement of complex exploration, diagnostic survey and protection plans, groundwater flow, heat and contaminant transport modelling.
- Developing well construction technology for sustainable and cost-effective thermal water injection into Upper Pannonian sandstone reservoirs.
- Contribution in environmental remediation projects of abandoned, former Hungarian ore mines, develop innovative solutions and technologies, e.g. design of acid mine drainage water treatment plants or in situ groundwater remediation with reactive barrier (uranium ore mine, Mecsek Mountains).
- Surface and groundwater quality studies, control and monitoring, laboratory tests of water samples.

Customers and partners:

- governmental organizations and local municipalities, authorities (e.g. PURAM Ltd, Regional Water Directorate);
 - private or state-owned companies (e.g. Golder Associates);
 - scientific and research centres (e.g. Hungarian Academy of Sciences).
-
- Drinking water reserve protection: Csurgó, Felsőszentmárton, Tettye water reserves (South-Danubian Regional Water Directorate, Tettye Forrásház Ltd, 2002-2016).
 - Thermal water reserve protection: Csokonyavisonta (Csokonyavisonta Thermal Spa), Szigetvár (Szigetvár Thermal Spa).
 - Thermal, medicinal and mineral water reserve protection works: Harkány (Harkány Medical Spa, 2007-2019).
 - Groundwater exploration project, drilling and construction of Egyházasharaszti thermal well (Siklós Local Government, 2005-2006).
 - Design of mine water treatment plants: Gyöngyösoroszi, Recsk (Mecsek-Öko Ltd, 2006-2012).

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Sector and subsector

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NATURAQUA ENVIRONMENTAL PROTECTION DESIGN AND SERVICE LTD

Sector and subsector

Environmental industry, drinking water, industrial water

About

NATURAQUA is a limited company which has operated as a designer, consultant and contractor in the fields of environmental protection, waste management and water management for more than 20 years.

The Company offers wide range of complex services to companies operating in the fields of industry, water and waste management, environmental protection, land development, investments and also wholesaling activities that have direct and indirect effects on the environment. Our colleagues are highly qualified and have extensive experience in different areas of engineering and environmental sciences. This technical knowledge of our staff, the softwares applied (hydrological modelling, soil and water quality risk assessment, GIS, drilling and up-to-date sampling and measuring tools) serve as an excellent technical background of complex tasks to be solved.

Products, services, innovative solutions

Preparation and review of strategies, concepts and feasibility studies

- ➔ Preparing feasibility studies at urban, regional and metropolitan level on long/short term treatment, disposal and recovery of wastewater sludge

Planning

- ➔ Water exploration, water resources planning, well-boring, water resources protection tasks, surface water revitalization, flood protection, lowland reservoir construction, sludge dredging

Risk analysis

- ➔ Survey of water and drinking water sources, groundwater pollutions and industrial (chemical) contaminations, including the identification of their extent and spreading

Monitoring

- ➔ Design, installation and operation of groundwater and monitoring systems

Environmental auditing

- ➔ Environmental review, auditing and design of industrial, commercial, agricultural, water management and regional development projects

Environmental permitting

- ➔ Preparing documents for IPPC permitting procedures concerning subsurface – surface waters

Implementation and operation

- ➔ Groundwater and subsurface water treatment, installation and operation of water purification technology

References

- ➔ 2017 Alkaloida chemical plant's dumpsites – preparing a complex hydrogeological model for the development of intervention
- ➔ 2014 Nitrokémia Ltd: monitoring report on the dumping-grounds of external combustion, preparing a groundwater monitoring plan
- ➔ 2014 Preparation of a new subsurface model - "Remediation of polluted areas on the Berhida Industrial Site".
- ➔ 2014 Fact-finding survey of the pollution of water resources around Abasár as well as the Gyöngyös-Atkár drinking water sources
- ➔ 2014 Vértesi Power Plant - preparation of subsurface pollution spreading model
- ➔ 2013 Detailed fact-finding survey of soil and groundwater pollution at Vecsés
- ➔ 2013 "Berhida Industrial Site" - Implementation plan of the groundwater extraction system

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ORGANICA WATER INC.



Recycling, wastewater treatment, water management

Over the past two decades Organica Water has developed a highly imaginative approach to wastewater treatment for urban and residential areas. Our facilities utilize active biofilms on natural (plant) and/or engineered root structures, all housed in a fully-enclosed, odourless facility.

The result is a solution which offers a significantly reduced physical footprint and lower operational and infrastructure costs when compared to conventional wastewater treatment solutions, all in the form of a pleasant botanical garden-like environment, located right in the centre of town.

Organica's portfolio of solutions for wastewater treatment covers the full value chain, from Design to Facility construction and Operations Management.

The backbone of Organica's Design offering is the Wastewater Treatment Plant (WWTP) Design Generator (DG) software. The DG produces fast, accurate and complete preliminary designs automatically, revolutionizing the way industry participants evaluate projects.

For the Wastewater Facility, Organica offers core products and services to enable the construction of a complete WWTP based on the Organica Food Chain Reactor (FCR) facility, which is a type of Fixed-Film Activated Sludge system utilizing a fixed-bed biofilm that grows on both natural (plant) and engineered (patented bio-fibre media) root structures, all housed in a compact, odourless, botanical garden-like facility. The result is a wastewater facility which offers a significantly reduced physical footprint, zero "psychological" footprint, and lower operational and infrastructure costs compared to other activated sludge-based solutions.

Our flexible solutions cover the full spectrum from complete Operations and Maintenance to basic Digital Monitoring, allowing clients to start small and progress as they see the savings.

Organica provides a proven solution adopted by the largest water companies and EPC contractors. Today, Organica is an international company with offices on six continents, and the world leader in bringing sustainable wastewater solutions to communities all over the world, with more than 110 facilities in 16 countries.

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Sector and subsector

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PURECO LTD



Sector and subsector

Drinking water purification, wastewater treatment, air treatment, stormwater management.

About

We design, build, operate and maintain water and wastewater treatment facilities with special devotion and professionalism in the fields of drinking water purification, communal and industrial wastewater and landfill leachate treatment, groundwater remediation, stormwater collection and treatment at the same time protecting the environment, whether it is natural or urban. Pureco and its partners strongly believe that the best solution are derived from close cooperation and collaboration. We also give priority not only to our projects and products but training programs as well, in order to help the local people to operate and maintain our systems, providing not only clean water but jobs and educational support. This philosophy and our excellence, reliability, and professionalism let Pureco be unique in the market and deliver fully customized and innovative solutions in all aspects of water management. We know and highly respect water. We develop optimal and cost-effective, long-life solutions in order to keep our waters safe, focusing on added value and sustainability. We are an international company with several offices in Central and Eastern Europe and we are also present in Asia, Africa and the Middle East throughout our projects.

Products, services, innovative solutions

Drinking water purification - we not only pay attention to the expansion, the conversion and reconstruction of existing facilities, but we also design-build and manage the construction of river surface water intake facilities, water treatment plants. We also give priority to reuse and recycling as a means of introducing new secondary water sources for water supply, such as reclaimed wastewater, to counteract water scarcity.

Municipal and industrial wastewater treatment - We offer not only the reconstruction of old, outdated sewage treatment plants, or the construction of new systems, but our engineering, consulting and construction services are accompanied by a professional mindset throughout the various fields of wastewater management as well.

Air treatment – our Biofilter product is an optimal solution to eliminate odour problems of your industrial activities (wastewater treatment, waste management, etc.).

Stormwater management - We offer dewatering, infiltration and storage products. Our patented product (ENVIA TRP oil separator) for stormwater treatment is a unique one, developed by Pureco for filtering and retaining the contaminants washed away by stormwater, flowing down from linear engineering structures.

References

- ➔ Drinking water purification plant construction in Vietnam.
- ➔ Quang-Binh province, Vietnam, 2017
- ➔ Clarification and sand filtration / surface water intake from river / 10,000 m³/day
- ➔ Municipal wastewater treatment plant in Kumasi
- ➔ Ghana, 2019-2020
- ➔ 1,000 m³/d / serving 100,000 people / liquid waste treatment / sustainable and optimal solution
- ➔ More than 40 additional WWTP in Hungary and abroad, serving more than 500,000 people.
- ➔ Odour treatment at the landfill of Subotica with Biofilter
- ➔ Subotica, Serbia, 2018
- ➔ 20,000 m³ treated air per hour / odourless waste management / with dust bag separator
- ➔ Complex stormwater treatment at Budapest Airport
- ➔ 5,800 l/s treated water / oil separation
- ➔ Oil separation systems at highways: Arad bypass, M35, M6.

Contacts

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S-METALLTECH 98 MATERIALS RESEARCH AND DEVELOPMENT LTD.



Drinking water, industrial wastewater, irrigation water, animal watering

The main activities of our company are the development and production of special adsorbent materials applied in the fields of environmental technologies as water treatment, furthermore, power industry and reactor technique, cooperating with domestic and foreign partners.

The company has developed the simple and flexible MET system to supply safe drinking water and irrigation water, furthermore, cleaned industrial waste water by treatment of arsenic, boron, iodine or fluorine contaminated waters.

S-Metalltech 98 Ltd receives the input parameters of the given water treatment project. Based on the above parameters the experts prepare the technical plan for the mitigation technology (construction, build up, operation, life cycle, quantities, etc.).

S-Metalltech 98 Ltd sells small customer tailored water treatment equipment, applicable for eliminating the contaminants from drinking water at small scale (at public schools, hospitals etc.), furthermore, for small businesses dealing with food productions or growing domestic vegetables and for small communities at rural areas.

S-Metalltech Ltd has designed and built a factory in Hungary, where regenerable arsenic, boron, iodine and fluorine adsorbents are produced. These materials clean the water without any chemicals and at a low operational cost.

Based on the adsorbents above S-Metalltech Ltd has developed the MET Water System. The easy-to-treat, small (EU norm pallet sized) water treating MET Water Units (MWUs) installed at different villages and/or institutions (hospitals, schools etc.) are organized into a network consisting of 10-50 MWUs, furthermore, one Monitoring and Service Center. The MWUs are equipped with a communication device which transmits the data to the state of the MWUs to the Monitoring and Service Center. These Centers are located in proper distance to supply the service of the MWUs.

We sold adsorbent materials and water treatment units in Hungary, Serbia, and Vietnam. These products are operating at waterworks, schools, universities, food companies, crop growing companies, etc.

Water treatment units installed by S-Metalltech Ltd:

- ➔ for 900m³/day capacity in Hungary, Kemece city waterworks, 2015
- ➔ for 6 m³/day capacity in Vietnam, Hanoi – kindergarden, 2016
- ➔ for 6 m³/day capacity in Serbia, Magyarkanizsa – Hospital, 2017
- ➔ for 6 m³/day capacity in Hungary, council, kitchen, kindergarden, 2016 – 2018
- ➔ for 200 m³/day capacity in Serbia, Bikovo city waterworks 2018

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Sector and subsector

About

Products, services,
innovative solutions

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SZABADICS CIVIL ENGINEERING AND CONSTRUCTION PLC



Sector and subsector

Wastewater, drinking water, flood and inland water, habitat rehabilitation work, floodgates

About

Szabadics Plc is one of the most dynamically developing construction companies in Hungary. The predecessor of the company was founded in 1989 with civil engineering as its main business activity. As a result of the continuous development of three decades, the company has become a large enterprise with a modern management system, with an organized and efficient management structure. As a result of our professional experience in construction, we are able to meet the high customer demands in almost all areas of the construction industry. Our equipment is modern, we are quickly applying new technologies, and we are constantly innovating. The name "SZABADICS" is a leading trade name in Hungary, with high reputation and recognition on the market. We insist on high technical standards, believe in the power of words, and appreciate the team that surrounds us, and we take pride in working with our colleagues. Our long-term plan is to introduce our activities to the surrounding countries, especially in the southern areas. We see ourselves as a management-based knowledge centre at present, and in the future capable of successfully managing large-scale projects across the country and abroad.

Products, services, innovative solutions

The main activity of Szabadics Plc is civil engineering. The company supplies the population with healthy drinking water, takes part in the implementation of sewage system projects of key national importance, and implements water regulation-related projects often in environmentally protected areas, preserving natural values. "The implementation of the "Kis-Balaton" water protection system" project aimed at the preservation of water reserves as unique natural resources, the supply of good quality water feeding the Lake Balaton, the creation of a system of lakes, and the restoration of the moorland and natural habitats in order to protect indigenous species. As far as work sites are concerned, we are a technologically independent company. Working in close co-operation with specialist companies, we can design and deliver solutions that best suit the needs of the given location. When implementing the services, the company delivers complex solution from the planning phase to the completion of a trial operation period, taking into account the customer's interests, quality work, environmental protection, occupational health and safety in the first place.

References

Category: Wastewater investments

Project name: Within the framework of the project aimed at developing the sewerage system and the wastewater treatment plant the expansion of the wastewater treatment plant in Nagykanizsa, including design and authorisation.

Nagykanizsa – 14 August, 2014

Project name: Developing the sewerage system of Nagyatád and its region as well as the wastewater treatment plant of Nagyatád.

Bakháza, Görgeteg, Háromfa, Kutas, Lábod, Nagyatád, Ötvöskónyi, Nagyatád-Kivadár – 29 October, 2015

Project name: Expanding the capacity of the wastewater treatment plant of Keszthely and building the related sludge treatment facilities.

Keszthely – 13 October 2015

Contacts

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Sewage water, renewable energy

Founded in 2007, Thermowatt has developed a technology to provide heating and cooling energy using sewage water as energy source. Raw communal untreated sewage (black water) is an ideal energy source as it carries away approximately 15% of the thermal energy provided to a conventional building and flows in cities where demand for heating and cooling is high. It is, however, hard to recover its thermal energy due to its contaminants content. Thermowatt has worked around this difficulty and designed a compact solution that can be installed even in densely populated city centres. Green, sustainable and financially viable, the solution has been patented in 37 countries and already in operations at six sites in Hungary.

Thermowatt is now developing on the international markets, exploring new applications for its solution also in the industry and continues to work on fine-tuning its technology.

Thermowatt's technology redirects sewage from the communal sewer lines to specifically designed screening units to filter out its contaminants. The filtered sewage is lead to purpose-built heat exchangers to recover its thermal energy. Following the energy recovery, the sewage is remixed with the filtered-out contaminants and returned to the communal sewer lines. The recovered thermal energy is passed onto industrial heat pumps that provide heating and cooling energy to the customer even simultaneously.

The solution's COP/EER efficiency figures are strong due to the relatively constant and favourable temperature of sewage water (17°C under continental climate) all year round. This ensures very competitive operating costs that compensate for the moderately high capital cost of the technology. Consequently, customers with constant large thermal energy needs, such as hospitals, office buildings, shopping malls and district heating providers are best placed to benefit from the solution financially. The technology's green, environment-friendly nature is a benefit to all.

Administrative buildings, a university and a convention centre are all beneficiaries of the award-winning solution as well as the Hungarian Military Hospital. The technology's reputation was greatly strengthened following the installation of the 4MW capacity system at the hospital in 2014. Újpest, a north-eastern district of Budapest, adopted the technology in 2017. Thermowatt developed a district heating project to heat and cool Újpest's modern market hall, a municipal office building and the over 100-year old city hall. The 1.7MW system configuration was designed to allow for capacity scale-up to later connect other buildings from the area. The Újpest installation is also part of an EU Horizon 2020 program to research the technology's significant district heating potential.

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Sector and subsector

About

Products, services,
innovative solutions

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Sector and subsector

Water management consultancy, project management, ODA-funded project preparation and implementation

About

Our company is engaged in project acquisition and project management in Central Europe and Southeast Asia in an international, multicultural environment in the fields of trade, services, investment and construction. During our more than 20 years of operation, we managed over 250 partners with sales and project traffic exceeding USD 150 million.

Due to our strategic developments since 1999, we are now represented by a team of more than 35 personnel in China, Vietnam and Serbia, who are all well versed in the local legal and economic environment.

Our Environmental Division manages the identification and implementation of water management investment opportunities. Our experience in the preparation and implementation of ODA projects dates back to more than ten years. During this period, we cooperated with numerous Hungarian and Asian engineering teams and groups that offer cost effective technologies; as well as government apparatuses.

Products, services, innovative solutions

Our main activities are water management consultancy and project management.

We offer our clients professional participation in flood remediation programs; strategy development for the sales of water management products; introduction of smart water meter installations; utilizing project management tasks and market opportunities for rainwater collection systems along motorways, and installing and marketing oil and grease separators. We also offer privatization consultancy in the relevant markets.

References

Vietnam-Hydroprojekt Ltd project company, which is co-owned by Tradeland Kft. implemented the Quang Binh Water Supply Project in Vietnam, within the framework of which a water treatment plant and the related drinking-water supply network was built. The investment, which was commissioned by the Provincial People's Committee with the value of EUR 10.5 million, has a water treatment capacity of 10,000 m³/h and provides clean drinking water for over 62,000 inhabitants. Our company was responsible for the full-scale management of this project and for managing ODA processes from the project launch until the end of the disbursement period.

Contacts

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UTB ENVIROTEC PLC



Communal wastewater, industrial wastewater, sludge, organic solids, biogas

UTB Envirotec Plc is a more than 20-year old Budapest based Hungarian cleantech company, providing Consulting & EPC wastewater and organic solids management services to its industrial and municipal clients worldwide.

Our staff includes more than 50 well trained engineers. We also own a well-equipped wastewater/biogas laboratory and an outstanding team.

We have a wide portfolio of processes, however, we are always looking for the best solution. If it is not in our portfolio, we search the world market and find the best method available.

Since the beginning of our operation, we have completed more than 100 projects with a total capacity of some 3 million PE. Lots of our projects are repeated business.

Our company also has a spin-off called Cyclator Ltd, an engineering and manufacturing firm, established to commercialize our BIODEC™ decanters. By now we have supplied some 130 decanters for more than 40 wastewater treatment plants (WWTPs).

We offer consulting, engineering and EPC services for WWTPs for communal and any kind of industrial wastewater and for sludge and organic solid waste treatment.

Our potential partners are municipalities, operators of public utilities and industries.

Our BIODEC decanter is our own development, it is a floating type unit, works with process air, excludes scum/solids, is low weight and is equipped with more than 130 working units.

Another in-house development is the reNEW process. This is a special fermentation of wastewater sludge/biosolids. It produces acetic acid and nutrients, both marketable products, while the remaining sludge quantity decreases substantially. The first full scale plant, installed at the second largest WWTP in Hungary, is under commissioning.

- ➔ Kall Ingredients, Tiszapüspöki/Hungary, corn processing, WWTP, 261.000 PE, turnkey, 2018;
- ➔ PROTAN, Codlea/Romania, rendering, WWTP, 21.000 PE, turnkey, 2018;
- ➔ 35 communal WWTP's, EU-HU subsidized projects, capacities in total 900.000 PE, engineering, 2007-2014;
- ➔ Glencore, Foktő/Hungary, oil seeding, WWTP, 16.000 PE, turnkey, 2013;
- ➔ Zalaegerszeg/Hungary, communal WWTP, supernatant treatment, turnkey, 2010, very first de-ammonification plant in Hungary;
- ➔ ATEV, Hódmezővásárhely/Hungary, rendering, WWTP, 38.000 PE, turnkey, 2008;
- ➔ KELET-FOOD, Nyírszőlős/Hungary, legumes & corn, WWTP, 48.000 PE, very first UASB application for corn industry in Europe, 2005;
- ➔ SUZUKI, Esztergom/Hungary, automotive industry, WWTP, 22.000 PE, turnkey, 2006;

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Sector and subsector

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Sector and subsector

Environmental services: water, waste management and energy services

About

Around the globe, Veolia helps cities and industries to manage, optimize and make the most of their resources for 160 years now. The company provides an array of solutions related to water, energy and materials – with a focus on waste recovery – to promote the transition toward a circular economy.

Veolia's 171,000 employees are tasked with contributing directly to the sustainability performance of customers in the public and private sectors, allowing them to pursue development while protecting the environment.

To this end, the company designs and deploys specialist solutions to provide, protect and replenish resources while increasing their efficiency from an environmental, economic and social standpoint.

Being present in Hungary for more than 25 years Veolia is one of the market leader companies in the energy, water and waste management industries. The group company employs approximately 3,000 people who provide professional services to various towns, institutions and industrial companies enabling them to efficient manage resources, while the water utility and district heating branches of the company supply drinking water to hundreds of thousands of families, and heat to tens of thousands of households.

Products, services, innovative solutions

Veolia designs and delivers services that are vital to human development and sustainable performance through three complementary business activities: water management, waste management and energy services. The company provides innovative, sustainable solutions to improve people's everyday lives and protect future resources.

Veolia offers more than 350 proprietary technologies to respond to issues that span the entire spectrum of water treatment, including drinking water, industrial process water, ultra-pure water, wastewater and seawater. Veolia makes water fit for drinking, gets it to where it is needed, collects it once used, treats it then recycles it for household and business use. From pilot initiatives to operations on an industrial scale, Veolia treats wastewater to make it suitable for consumption and reclaims it for use in areas such as power generation and fertilizer production. In addition to its comprehensive management of the different stages of the water cycle for household use and industrial processes, Veolia continues to innovate and raise awareness to reduce waste and produce viable, alternative resources on a broad scale.

References

Most important references in Hungary:

- ➔ Budapest Sewage Works, South Pest Wastewater Treatment Plant, Budapest (2012): thermofile sludge digestion unit operated at the South-Pest plant, producing bioenergy from the organic matter content of the wastewater to produce electric energy
- ➔ Szeged Waterworks (1994): With a 49% ownership stake Veolia is responsible for the technical management of Szeged Waterworks. Szeged Waterworks supplies drinking water, collects wastewater and rainwater, and operates the water utility facilities in the administrative area of Szeged and Algyő.

Contacts

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VIZITERV EXPORT ENVIRONMENTAL AND WATER DESIGN AND CONSULTING LTD



Water management

The VIZITERV Export Environmental and Water Management Planning, Consulting and Services Ltd is a new, 100% state owned company. The General Directorate of Water Management (OVF) possesses the rights of ownership and supervision as well. The company was primarily established to operate in certain international fields that are under the scope of the governmental water management sector, therefore, the correspondence of the professional knowledge and human resources makes it possible for us to provide support. With its professional potential and resources the company can take up an active role in participating in the preparation, planning and implementation of foreign water management developments. The VIZITERV Export Ltd is supported by two pillars, both of which fall under the authority of the General Directorate of Water Management. The first pillar is the professional potential of the 12 regional water directorates, and their accumulated knowledge base. The second pillar is based on the resources and capacity of the also state owned Viziterv Environ Ltd. With its 150 employees it is the biggest company of the country that is a dedicated water management planning and consulting firm.

The company provides the following services:

- multipurpose water management system development,
- reservoir operation system development,
- agricultural water service system development, irrigation facility planning,
- drought risk assessment, drought monitoring system development, forecast method establishment, operational drought and water, scarcity management system planning,
- flood risk assessment, danger and risk maps, elaboration of risk, management plans, defensive organizational structure and management planning,
- flood observing, early warning and forecast system development, planning, elaboration of flood forecast methods and models,
- flood protection and river engineering facility design,
- water management related trainings and education.

Feasibility studies:

- "Preparing a preliminary feasibility study to improve the safety of agricultural production, taking into account irrigation opportunities from surface and groundwater resources in dry and semi-dry areas in Kenya."
- „Sustainable Energy-Water Solutions for Medium to Large Scale Irrigation of Commercial Farming in Uganda"

Expert activity:

- „Restoration of the Sediment Balance in the Danube River" project
- „Danube River Basin Enhanced Flood Forecasting Cooperation" project
- „Strengthening cooperation between river basin management planning and flood risk prevention to enhance the status of waters of the Tisza River Basin" project

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Sector and subsector

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VTK INNOSYSTEM WATER-, NATURE- AND ENVIRONMENTAL PROTECTION LTD



Sector and subsector

Water management, environmental impact assessment, audit, IPPC project development, tenders

About

VTK Innosystem Water-, Nature- and Environmental Protection Ltd is one of Hungary's well-known water management and environmental protection technical service companies. The company provides a wide range of support in water management and environmental protection for governmental, municipal, industrial and military clients. The services include scientific and technical counselling and, through our partners, complete implementations of projects, and engineering tasks of water management and environmental protection.

A long-term cooperation with our clients is a fundamental part of VTK Innosystem's business strategy. Having been present on the market of water management and environmental protection for more than 25 years the company has established several long-term partnerships with national and international clients by providing high level consumer value.

VTK Innosystem Ltd has implemented many national and international projects with its partner companies in the whole spectrum of water management. For continuous improvement and renewal, VTK Innosystem has concluded strategic consortium partnerships with high professional level companies and successfully implements accepted projects with former and current consortium partners.

Products, services, innovative solutions

VTK Innosystem provides the following services for international projects:

- ➔ feasibility studies and environmental impact assessments
- ➔ general design
- ➔ comprehensive project implementation
- ➔ technological design, power plant design, automation design and implementation
- ➔ design and implementation of public utilities, planning and technological supervision CFD, FDS
- ➔ exclusive distribution of design software
- ➔ we have special knowledge and experience in connection with planning and implementing international projects
- ➔ our excellent project management team consists of dynamic, highly-trained engineer colleagues

References

- ➔ World Bank – Central Tisza Valley Water Quality Protection Project, 1993
- ➔ JICA - Water Quality Protection Studies on the Danube, 2003-2004
- ➔ World Bank – GEF – Social and Environmental Impact Assessment of revitalization of oxbow lakes at Gemenc 2005, 2011-2012
- ➔ LIFE – Examination of the environmental status of Szigetköz, 2005-2006.
- ➔ Körös Cosult – Laos - Development of Water Supply and Wastewater Treatment of Vientiane Capital, Feasibility Study, 2018
- ➔ HWE – Laos -, Legal consultancy, 2019
- ➔ HWE – Laos -, Environmental Impact Assessment, 2018
- ➔ Indonesia – „Water Stress Management Best Practices in Hungary” conference, representation of Hungary, 2019
- ➔ Uganda – Ministry of Foreign Affairs - Providing drinking water supply in Rwamwan refugee camp, 2019

Contacts

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WATERSCOPE INTERNATIONAL INC



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Drinking water, surface water, measurement and analysing technologies

WaterScope International Inc has developed a new field of microscopy using volumetric analysis method. The Artificial Intelligence (AI) based recognition and classification of algae and other microorganisms in water ensures enhanced statistical accuracy through large data volumes and makes the testing process resource and time efficient. The continuous monitoring provides real-time information, enabling immediate action if changes in water quality appear. Remote control and site-independent classification module ensure easy access to the data, no matter where the device is located. No wasted time by transporting sample, no risk of sample deterioration. Flexibility and freedom to set up waterborne microbiology monitoring capacity without having to invest heavily into equipment and personnel.

Our partners are water utilities, engineering companies, environmental agencies, aquacultures, laboratories, research and education centres.

Advantages of the system:

- ➔ Continuous monitoring, early warning
- ➔ Real-time information
- ➔ Onsite measurement with remote access.
- ➔ No wasted time by transporting sample, no risk of sample deterioration
- ➔ Site- and time independent evaluation
- ➔ Digital reporting and archiving, easy tracking
- ➔ Cost saving in sample's transportation, preparation
- ➔ Faster evaluation process, efficient use of workforce

- ➔ Berliner Wasserbetriebe between March-June, 2018
- ➔ Berlin, Germany
- ➔ Monitoring of river Spree, follow the trend of blue and green algae concentration
- ➔ BOKU University, from March, 2019 until today
- ➔ Vienna, Austria
- ➔ Monitoring of water sources around Vienna, scientific researches, measuring efficiency of water filters.
- ➔ Marine Institute of CNR and ARPAL, from February, 2019 until today
- ➔ Genova, Italy
- ➔ Sea water monitoring, classifying specific algal species in customer's waters
- ➔ HAKI – National Centre for Agricultural Research and Innovation, Szarvas, Hungary – from April 2019 until today
- ➔ Monitoring of the fishpond's algal content, simultaneously with multiple sensory measurements, comparing the results with nutrient intake

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Sector and subsector

About

Products, services,
innovative solutions

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Sector and subsector

Agricultural input material producer

About

Keeping the soil moist for longer – Water&Soil® Ltd (W&S) is an agricultural material producer company addressing one of the greatest limitations to global agriculture: water scarcity.

The Water Retainer is an organic based liquid soil conditioner, that retains the already existing humidity in the soil. Following the treatment with the Water Retainer, crops can survive drought periods one or two times longer in rain-fed cultivation, which results in 14-37% yield increase. Farmers using the Water Retainer can save up to 50% of their irrigation water and cost in irrigated cultivation. The product is registered for use in organic farming.

The Water Retainer reduces the impact of climate change. Creating better humidity situation in the soil increases microbiologic life activity, activity and crop yield, lead to better germination, reduces salinization and provides good ROI to farmers.

Products, services,
innovative solutions

The product: Water&Soil® Water Retainer, an organic liquid which is used for saving the humidity in the soil. It keeps the soil moist longer. Registered for use in organic farming. It can save 30-50% of the irrigation water in irrigated cultivation depending on the climatic conditions. The only product in this category which can be used in not irrigated agriculture. The product provides 10-30% yield surplus.

As the blending technology can be licensed, local production can be set up, therefore, companies as well as governments can be interested to have the license.

Our main costumers are farmers, city parks maintainers, sport field operators, private garden owners, and agricultural input material distributors.

References

- Hungary: 50% water saving and 10-37% yield surplus (tomato, corn, sunflower, chili, grass)
- Morocco. 25-30% water saving (citrus, olive, date palm, silage corn)
- Pakistan: 40% water saving + 4% yield surplus (cotton)
- Kenya: 30% water saving (French beans)
- Chile: 30% water saving (vineyard)

Contacts

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XYLEM WATER SOLUTIONS HUNGARY LTD



Drinking water, sewage water, wastewater, engineering, industry, HVAC

We are a global team unified in a common purpose to create advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

We are adaptable problem solvers, meeting our customers' needs now and in the future. Our brands will continue to be leaders in the industry, having global recognition, reach a critical impact on individuals and broader communities. Our company is partner-focused, anticipating needs and providing thoughtful solutions.

What we can offer to our partners:

- Reliable, flexible and creative engineering solutions;
- Long-term support and responsive solutions because we understand how critical our components are to keep businesses successful;
- Efficient, sustainable solutions that can be relied on time after time;
- Highly customized solutions and creative problem-solving for each unique need or situation;
- "On the ground" support globally
- Thoughtful and forward-looking innovations, to provide our customers with the most innovative, responsive solutions.

We have been an active participant in all recent major canalization and wastewater treatment projects in Hungary. We have a prominent market share of pumping stations and wastewater treatment plants in the area of operation of the domestic and regional waterworks.

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Sector and subsector

About

Products, services,
innovative solutions

References

Contacts



AGM Concrete Ltd	Civil Engineering
	Water management
	Structural Engineering
	Water towers
AGRIAPIPE Ltd	Maintenance
	Water testing
AQUA CONSTRUCT Ltd	Civil engineering
	Water utility
	Consultancy
	Water treatment
	Drinking water
	Sewage Water
AQUACUST Ltd	Civil engineering
	Drinking water
	Water loss analysis
AQUAPLUS Ltd	Civil engineering
	Geothermal energy
	Thermal water
AQAPROFIT Co	Water management
	Drinking water
	Mineral water
	Surface water
	Groundwater
BIOPOLUS	Circular economy
	Sustainable urban development
	Water treatment
	Wastewater reuse
BDL Environmental Ltd	Environmental engineering
	Consultancy
	Planning
Bonaventura Gold Ltd	Bottling
Budapest Chamber of Commerce and Industry	Consultancy
Budapest Sewage Works Pte Ltd	Water treatment
	Sewage water
	Bioenergy
	Flood protection
	Inland water protection
	Wastewater



Budapest Waterworks Plc	Water management
	Drinking water
	Wastewater
	Public utilities
Controlsoft Automatika Ltd	Automation
	Electrical engineering
	Process control systems
	Software development
FŐMTERV Ltd	Design
	Infrastructure
	Drinking water
	Wastewater
	Storm water
General Directorate of Water Management	Water management
GeoGold Kárpátia Ltd	R&D
	Geological, hydrogeological and environmental services
Hidrofilt Water Treatment Ltd	Water treatment
	Containerised mobile systems
	Demineralized water
	Drinking water
	Industrial water
	Recycling
HIDROKOMPLEX Ltd	Water treatment
	Industrial water
	Wastewater
Hungarian Water Association	Consultancy
	Education
	Water management
Hungarian Water Partnership	Design
	Construction
	R&D
Hungarian Water Treatment Cluster	Water treatment
	Wastewater
	Groundwater
	Stormwater



Hungarian Water Technology Corporation Ltd	Water treatment
	Environmental protection
	Wastewater
Hungarian Water Utility Association	Representation
	Inno-Water Inc
	Consultancy
	Water management
Inno-Water Inc	Consultancy
	Water management
Körös-Consult Ltd	Construction
	Design
	Utilities
	Water treatment
	Wastewater
MECSEKÉRC Environmental Ltd	Hydrogeology
	Groundwater exploration and protection
National University of Public Service Faculty of Water Sciences	Education
NATURAQUA Ltd	Environmental Industry
	Drinking water
	Industrial water
Organica Water Inc.	Water treatment
	Recycling
	Wastewater
Pureco Ltd	Water treatment
	Stormwater
	Wastewater
S-Metalltech 98 Ltd	Production
	Drinking water
	Industrial wastewater
Szabadics Plc	Construction
	Drinking water systems
	Flood and inland water systems
	Flood gates
Szeged Centre for Vocational Training	Education
	Vocational education
Thermowatt Ltd	Renewable energy
Tradeland Ltd	Consultancy
	Project management



University of Debrecen	Education
	Research
	Drought mitigation
	Hydrobiology
	Urban hydrology
University of Miskolc	Water resource management
	Hydrogeology
	Drinking water resources
University of Pannonia	Education
	Research
	Micropollutant removal
University of Pécs	Education
	Research
UTB Envirotec Plc	Consulting
	Communal wastewater
	Industrial wastewater
	Sludge and organic solids
Veolia Energy Hungary Co. Ltd	Environmental services
	Waste management
VIZITERV Ltd	Consulting
	Planning
	Water management
VTK Innosystem Ltd	Water management
	Environmental impact management
	Project management
Water&Soil Ltd	Production
	Agricultural input material production
WATERSCOPE INTERNATIONAL INC	Research
	Drinking water
	Surface water
	Production
	Microscopes
	Analysing technologies
Xylem Ltd	Engineering
	Drinking water
	Sewage water
	Wastewater



Automation	BDL Environmental Ltd	
	Controlsoft Automatika Ltd	
	Hungarian Water Partnership	
	Hungarian Water Technology Corporation Ltd	
	VTK Innosystem Ltd	
	Xylem Ltd	
Bioenergy	Budapest Sewage Works Pte Ltd	
	Veolia Energy Hungary Co. Ltd	
	Xylem Ltd	
Bottling	Bonaventura Gold Ltd	
	Xylem Ltd	
Circular economy	BIOPOLUS	
	Veolia Energy Hungary Co. Ltd	
	Xylem Ltd	
Civil engineering	AGM Concrete Ltd	
	AQUA CONSTRUCT Ltd	
	AQUACUST Ltd	
	AQUAPLUS Ltd	
	BDL Environmental Ltd	
	FŐMTERV Ltd	
	GeoGold Kárpátia Ltd	
	Hungarian Water Partnership	
	Hungarian Water Technology Corporation Ltd	
	Szabadics Plc	
	Xylem Ltd	
	Construction	AGM Concrete Ltd
		AQUA CONSTRUCT Ltd
AQUAPLUS Ltd		
AQUAPROFIT Co.		
BDL Environmental Ltd		
Budapest Sewage Works Pte Ltd		
Budapest Waterworks Plc		
FŐMTERV Ltd		
HIDROKOMPLEX Ltd		
Hungarian Water Partnership		
Hungarian Water Technology Corporation Ltd		
Körös-Consult Ltd		



Construction	MECSEKÉRC Environmental Ltd
	National University of Public Service Faculty of Water Sciences
	NATURAQUA Ltd
	Organica Water Inc.
	Pureco Ltd
	S-Metalltech 98 Ltd
	Szabadics Plc
	Tradeland Ltd
Xylem Ltd	
Consultancy	AQUA CONSTRUCT Ltd
	AQUAPROFIT Co.
	BDL Environmental Ltd
	Budapest Chamber of Commerce and Industry
	Budapest Waterworks Plc
	Inno-Water Inc
	NATURAQUA Ltd
	Tradeland Ltd
	VTK Innosystem Ltd
	Xylem Ltd
Control systems	Controlsoft Automatika Ltd
	HIDROKOMPLEX Ltd
	Xylem Ltd
Demineralized water	Hidrofilt Water Treatment Ltd
	Xylem Ltd
Design	AQUA CONSTRUCT Ltd
	AQUAPLUS Ltd
	AQUAPROFIT Co.
	BIOPOLUS Budapest Waterworks Plc
	BDL Environmental Ltd
	FŐMTERV Ltd
	Hungarian Water Partnership
	Körös-Consult Ltd
	MECSEKÉRC Environmental Ltd
	VIZITERV Ltd
Drinking water	AGM Concrete Ltd
	AGRIAPIPE Ltd
	AQUA CONSTRUCT Ltd



Drinking water	AQUAPROFIT Co.
	BDL Environmental Ltd
	Bonaventura Gold Ltd
	FŐMTERV Ltd
	GeoGold Kárpátia Ltd
	Hidrofilt Water Treatment Ltd
	NATURAQUA Ltd
	Pureco Ltd
	S-Metalltech 98 Ltd
	Szabadics Plc
	WATERSCOPE INTERNATIONAL INC
	Xylem Ltd
Education	Hungarian Water Association
	National University of Public Service Faculty of Water Sciences
	S-Metalltech 98 Ltd
	Szeged Centre for Vocational Training
	University of Debrecen
	University of Miskolc
	University of Miskolc
	University of Pannonia
	University of Pécs
Environment protection	BDL Environmental Ltd
Environmental engineering	BDL Environmental Ltd
	National University of Public Service Faculty of Water Sciences
	University of Debrecen
	University of Pannonia
	University of Pécs
Environmental protection	AQUAPROFIT Co.
	NATURAQUA Ltd
	VTK Innosystem Ltd
Floodgates	Szabadics Plc
Geothermal energy	AQUAPLUS Ltd
	AQUAPROFIT Co.
	University of Miskolc
Groundwater	AQUAPROFIT Co.
	GeoGold Kárpátia Ltd
	Hungarian Water Treatment Cluster
	Körös-Consult Ltd
Groundwater	MECSEKÉRC Environmental Ltd
	Pureco Ltd



Hydrogeology	MECSEKÉRC Environmental Ltd
	University of Miskolc
Infrastructure	BIOPOLUS
	Budapest Waterworks Plc
	FŐMTERV Ltd
Irrigation	S-Metalltech 98 Ltd
	VIZITERV Ltd
	Water&Soil Ltd
Maintenance	AGRIAPIPE Ltd
	Controlsoft Automatika Ltd
	Hidrofilt Water Treatment Ltd
Measurement	AQUAPROFIT Co.
	WATERSCOPE INTERNATIONAL INC
Mineral water	Bonaventura Gold Ltd
	GeoGold Kárpátia Ltd
Pipeline systems	AGRIAPIPE Ltd
Planning	AQUA CONSTRUCT Ltd
	BDL Environmental Ltd
	NATURAQUA Ltd
	Szabadics Plc
	Veolia Energy Hungary Co. Ltd
	VIZITERV Ltd
	VTK Innosystem Ltd
VIZITERV Ltd	
Project management	Tradeland Ltd
	VTK Innosystem Ltd
Purification	AQUA CONSTRUCT Ltd
	AQUAPROFIT Co.
	Budapest Waterworks Plc
	Pureco Ltd
Research&development	GeoGold Kárpátia Ltd
	Inno-Water Inc
	S-Metalltech 98 Ltd
	University of Debrecen
	University of Miskolc
Research&development	University of Pannonia
	University of Pécs



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- Companies,
Institutions,
Organisations

Recycling	Hidrofilt Water Treatment Ltd
	Organica Water Inc.
Rehabilitation	AQUAPROFIT Co.
	Inno-Water Inc
	Szabadics Plc
Sewage water	AQUA CONSTRUCT Ltd
	Budapest Sewage Works Pte Ltd
	Thermowatt Ltd
	Xylem Ltd
Sewerage systems	HIDROKOMPLEX Ltd
Sludge utilization	Budapest Sewage Works Pte Ltd
	UTB Envirotec Plc
Software development	Controlsoft Automatika Ltd
Stormwater	BDL Environmental Ltd
	FŐMTERV Ltd
	Hungarian Water Treatment Cluster
	Pureco Ltd
Surface water	AQUAPROFIT Co.
	Hidrofilt Water Treatment Ltd
	NATURAQUA Ltd
	Pureco Ltd
	WATERSCOPE INTERNATIONAL INC
Testing	AGRIAPIPE Ltd
	WATERSCOPE INTERNATIONAL INC
Thermal water	AQUAPLUS Ltd
Urban development	BIOPOLUS
Utilities	BDL Environmental Ltd
	FŐMTERV Ltd
	Hungarian Water Utility Association
	Körös-Consult Ltd
	UTB Envirotec Plc
	VTK Innosystem Ltd
	Xylem Ltd
Wastewater	AGM Concrete Ltd
	BIOPOLUS
	BDL Environmental Ltd



Wastewater	Budapest Sewage Works Pte Ltd
	Budapest Waterworks Plc
	Controlsoft Automatika Ltd
	FÓMTERV Ltd
	General Directorate of Water Management
	Hidrofilt Water Treatment Ltd
	HIDROKOMPLEX Ltd
	Hungarian Water Technology Corporation Ltd
	Hungarian Water Utility Association
	Organica Water Inc.
	Pureco Ltd
	S-Metalltech 98 Ltd
	Szabadics Plc
	UTB Envirotec Plc
	Budapest Sewage Works Pte Ltd
	Budapest Waterworks Plc
	General Directorate of Water Management
	Hungarian Water Treatment Cluster
	Hungarian Water Partnership
	Körös-Consult Ltd
University of Pannonia	
University of Pécs	
Veolia Energy Hungary Co. Ltd	
VTK Innosystem Ltd	
Xylem Ltd	
Wastewater treatment	BIOPOLUS
	Budapest Sewage Works Pte Ltd
	HIDROKOMPLEX Ltd
	Hungarian Water Technology Corporation Ltd
	Organica Water Inc.
Pureco Ltd	
Water management	AGM Concrete Ltd
	AQUA CONSTRUCT Ltd
	AQUAPROFIT Co.
	BDL Environmental Ltd
	Budapest Chamber of Commerce and Industry
	Budapest Waterworks Plc
	General Directorate of Water Management



Water management	GeoGold Kárpátia Ltd
	Hidrofilt Water Treatment Ltd
	Hungarian Water Association
	Hungarian Water Technology Corporation Ltd
	Inno-Water Inc
	National University of Public Service Faculty of Water Sciences
	NATURAQUA Ltd
	Organica Water Inc.
	Pureco Ltd
	Tradeland Ltd
	University of Debrecen
	University of Miskolc
	University of Pannonia
	University of Pécs
	Veolia Energy Hungary Co. Ltd
	VIZITERV Ltd
	VTK Innosystem Ltd
	AGM Concrete Ltd
	AQUAPROFIT Co.
	Controlsoft Automatika Ltd
	General Directorate of Water Management
	Hungarian Water Association
	Hungarian Water Partnership
	Tradeland Ltd
	Veolia Energy Hungary Co. Ltd
	VIZITERV Ltd
	VTK Innosystem Ltd
Water protection	Budapest Sewage Works Pte Ltd
Water treatment	Hidrofilt Water Treatment Ltd
	Hungarian Water Treatment Cluster
	Hungarian Water Technology Corporation Ltd
	Tradeland Ltd
Water-loss analysis	AQUACUST Ltd
Well-drilling	AQUAPLUS Ltd
	MECSEKÉRC Environmental Ltd

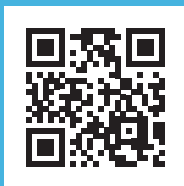




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HEPA

Hungarian Export
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