Companies, Institutions and Organisations in the Hungarian Water Sector (2016)

MINISTRY OF
FOREIGN AFFAIRS AND TRADE
OF HUNGARY

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Hungarian
National
Trading House

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FOREWORD

The Hungarian Nobel Prize winner, Albert Szent-Györgyi once said, “Water is life’s matter and matrix, mother and medium. There is no life without water.” Water is one of Earth’s most precious natural resources. Without suitable amounts of clean water, there can be no sustainable development. Without adequate amounts of safe drinking water and without safe sanitation, there can be no sustainable peace. Bearing all this in mind, when we talk about water, we are talking about our common future.

Mutual dependencies will only increase over time as regions and sectors exposed to water shortage rely more and more heavily on water sources controlled by others. Water must therefore be treated as a high political priority at all levels of governance and it should be integrated into all other relevant policy areas. Above all, water must be transformed into a medium of cooperation rather than of conflict. Cooperation – not only among sectors, but also across geographical and political boundaries – is essential for global sustainability.

Ten years from now, at a time that is not so far away, close to 2 billion people will be living in water-stressed areas. Already 40 per cent of the population get their daily amount of water from transboundary river basins and aquifers. We have already witnessed how competition for water has begun. It is not a coincidence that this year’s report of the World Economic Forum names the water-crisis as a top long-term risk threatening the world today.

With 96% of Hungary’s surface waters originating from abroad, international water cooperation is, for Hungary, an eminent national security concern, while economic conservation and nature conservation is an imperative for the nation. 700 settlements, 2.5 million people, 40% of the country’s agricultural land, 2000 industrial plants – indirectly about 30% of the country’s GDP – are potentially affected by floods originating beyond the country’s borders.

Having said that, during the recent centuries, as a downstream country, Hungary has succeeded in reaping benefits from its geographical disadvantage through gaining a considerable degree of proficiency in the field of water management, a field in which the Hungarian water sector has played and still plays an important role. It has developed significant expertise in water and sanitation management, supported by a strong academic and educational institutional framework. The work of Hungarian scientists and experts has gained recognition at the highest levels by the international community in the field of global water management and our experts serve as living proof that our country has a well-developed higher education system pertaining to water.

The development of technologies and solutions related to water engineering remains at the centre of Hungary’s international development policy. Accordingly, the Ministry of Foreign Affairs and Trade and the Hungarian National Trading House are glad to present this publication, one which we believe paints a comprehensive and insightful picture of the Hungarian water sector. It offers a broad spectrum of innovative and environment-friendly solutions and we are convinced that it will foster fruitful business opportunities.

István JOÓ
Ministerial Commissioner responsible for the organisation of the Budapest Water Summit 2016
Ministry of Foreign Affairs and Trade
Hungary

HUNGARIAN NATIONAL TRADING HOUSE

The Hungarian National Trading House (MNKH), established by the Ministry of Foreign Affairs and Trade and the Hungarian Chamber of Commerce and Industry as a state export development institution, has the tasks of strengthening the export ability of economic operators that serve Hungarian interests and contributing to the increase of Hungarian export volumes in accordance with the foreign trade strategy of the Government of Hungary.

Within the framework of its export promotion activity, the Hungarian National Trading House aims to develop the abilities of enterprises in producing and providing innovative, internationally competitive products and services and to offer them opportunities for entering international markets and achieving success in exports.

Therefore, the Trading House is present in nearly 60 countries on four continents. With the help of the trading houses operating in the target markets, the Hungarian National Trading House has the capability to provide market information and to search for potential business partners and business opportunities for the Hungarian SMEs.

In addition, the Trading House created special competence centres: in the field of agriculture in Cambodia, in the food industry in Mongolia and info-communications in Mexico. This network is supplemented by 20 offices in countries neighbouring Hungary as well as Poland. The Trading House also has a broad network of diplomatic relations through Hungarian embassies and the network of foreign trade attachés working with them.

The Trading House maintains ties to approximately 4,000 competitive and reliable Hungarian enterprises, which are ready to export their achievements in research and development, and in technology. To advance the development of cooperation, the Trading House supports foreign businesses interested in Hungarian products, services and technologies with market information, the search for business partners, business opportunities, and the organisation of B2B meetings and business forums.

The Hungarian National Trading House does not just look for unique business opportunities, it also implements projects that are integrated within a particular sector or across sectors.

In the course of such complex integrated projects the Trading House provides the spectrum of project management. This includes coordinating among actors, seeking out financial resources and participating in the execution of the project.

Hungarian National Trading House offers a wide scale of internationally competitive, sustainable and modern systems meeting the requirements of environmental standards by the comprehensive application of the technologies available from Hungarian developments and the engineering services from our partners.

Professional competencies:

- river engineering
- flood control
- water purification
- water consumption
- wastewater treatment
- irrigation
- balneology
- water research
- energy production

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Contents

BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS

MŰEGYETEM 1782

About the institution

In 1635 Péter Pázmány, Primate, Archbishop of Hungary, founded the first Hungarian University of the New Age at Nagyszombat. In the late 18th century, the University moved to Buda and became the University of Buda. In 1782 Emperor Joseph II established the Institutum Geometricum as part of the Faculty of Liberal Arts at the University of Buda. The Institutum was the first in Europe to award engineering degrees to students of land surveying, river control and road construction. During the 1800s Institutum merged with Joseph College of Technology and became the Royal Joseph Polytechnic and later Royal Joseph University. The University gained full autonomy and the right to issue engineering diplomas after five years of studies and was among the first institutions in Europe to train engineers at university level.
In 1901 the University became entitled to confer the doctoral degree, “Doctor Rerum Technicarum.” The name “Technical University of Budapest” became official in 1949.
In 1994 the University was among the first universities in Hungary to introduce the credit system, according to the European Credit Transfer System (ECTS) in its accredited academic programs. The official name of the University became Budapest University of Technology and Economics, in 2000.

Description of trainings and courses related to water management

Water plays a central part of several research activities at the Budapest University of Technology and Economics (BME) and, beside research, in the engineering education as well. The Department of Hydraulic and Water Resources Engineering has expertise in measuring, modelling and managing aquatic systems, strengthened by the Water Management Research Group of the Hungarian Academy of Sciences, which is incorporated into the department. Our geotechnical research topics include engineering geology, river morphology, lake hydrodynamics, lake hydrology and limnology. Our education and research at the Department of Sanitary and Environmental Engineering covers the whole area of urban water management, water quality and flood control, water and wastewater technologies, public works, environmental and sanitary engineering, making us the leading education centre in Hungary. The Department of Hydrodynamic Systems is involved in teaching activities from fundamental subjects to highly specialized areas of research. Our self-developed steady-state hydraulic modelling program ‘Staci’ is used for network development and sizing of water supply and wastewater management systems.
The Department of Applied Biotechnology and Food Sciences has a broad activity spectrum covering education, research and expertise in biochemical engineering, including wastewater treatment from basic research of background processes to its innovative application providing state-of-the-art technologies.
The Department of Chemical and Environmental Process Engineering has leading, complementary water-related research and teaching scope in description, investigation, modeling and design of physico-chemical treatment processes.

Examples for international cooperation

Currently, over 110 departments and institutions operate within the structure of eight faculties. Approximately 1100 lecturers, 400 researchers and other degree holders, numerous invited lecturers and practising expert specialists participate in our education and research at the Budapest University of Technology and Economics. Around 800 of the university’s 14,000 students are from 50 different countries. The Budapest University of Technology and Economics issues about 70% of Hungary’s engineering degrees.

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NATIONAL UNIVERSITY OF PUBLIC SERVICE, HUNGARY
CENTRE FOR SUSTAINABLE DEVELOPMENT STUDIES

Sector and subsector

Higher Education

About

The National University of Public Service (NUPS) of Hungary is a comprehensive school of government encompassing all major fields of the management of a modern state: public administration, defence, law enforcement and diplomacy. In view of the overriding impacts of the global megatrends on public administration the NUPS established in 2015 an independent research unit – the Centre for Sustainable Development Studies – dedicated to contemporary sustainability issues.

Description of trainings and courses related to water management

Given the centre stage of water in international relations and politics NUPS launches a new international Masters programme from the 2017 academic year dedicated to international water governance. The programme will be managed by the Centre of Sustainable Development.

Webpage

www.uni-nke.hu (Hungarian) www.en.uni-nke.hu (English)

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SZENT ISTVÁN UNIVERSITY

Szent István University (SZIU) stands as the central pillar of higher education in Hungary and the region, and is one of the largest higher educational institutions in the country.
Szent István University was founded in 2000 by the merger of the University of Veterinary Science in Budapest, Ybl Miklós Technical College, the Teachers' Training College of Jászberény and the University of Agriculture in Gödöllő, and Tessedik Sámuel College, in 2009.
The University consist of 8 faculties, more than 18,000 students and over 2,000 academic staff.
Our variety of Departments helps the academic staff to progress with current technological advancements and information processing and prepares graduates with comprehensive knowledge for global application.
As expected from universities and colleges today, we retain close connections with the business world. Stakeholders support students by providing practical training and advising diploma theses. Companies are able to employ our graduates upon successful completion of the University's mission, creating future visiting lecturers, researchers and assistants.
We welcome new ideas and proposals with respect to corporation topics that correlate with our University's programs.

Understanding the intercultural and regional aspects of sustainable agriculture and food technology is crucial to finding viable pathways to long-term success in Central and Eastern European agriculture.
Our faculties offer BSc, MSc and PhD courses both in Hungarian and in English. SZIU also offers courses in international partnerships with several universities worldwide, where students can chose from numerous courses, in addition to their obligatory curricula.
Eight faculties of SZIU offer 136 different courses related to water.
As water is one of the most important elements on Earth, the topics of the courses cover a huge variety from public utility and sewage management, hydraulic architecture through agricultural use and landscape protective approaches as well as water quality assurance and control.
Every aspect of water, related to agriculture, environment, life of plants, animals and humans, are covered by our courses.
Water life is also included in the following studies: fishery, wetland plants and microbiological processes.
Most of the water-related courses are based on experimental background, supported by our teachers, who organize field trips as well as provide on-site experiments to students.

Association for European Life Science Universities
TEMPUS Scholarship
Erasmus Scholarship
FAO Scholarship
EcoVoc and Eco-Motive projects
AGRIFOOD Joint Master Programme
Partner Universities: Purdue University, University of Wageningen, Justus Liebig University, BOKU

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UNIVERSITY OF MISKOLC

About the institution

The University of Miskolc Faculty of Earth Science and Engineering is one of the oldest higher education institutions of the world in the mining discipline as its history dates back to 1735. Building on exceptionally strong technical traditions and a professional community, our present faculty is continuously working on the industry-driven renewal of our knowledge base, educational programs and research focus. Consequently, the conventional technical disciplines have been reshaped, consistent with the present global challenges, positioning water resources management and hydrogeology as one of our main focus areas.

Description of trainings and courses related to water management

MSc in Hydrogeology Engineering
The aim of our program is to train highly qualified engineers (MSc Hydrogeological Engineer) who are competent in dealing with hydrogeological, water management and environmental issues related to surface and groundwater resources, with special emphasis on groundwater research and exploitation, protection of water quality and 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 (buildings, tunnels, railways, underground transport, open pit mines, reservoirs, etc.).
Due to the increasing number of relevant quality and quantity issues of water resources, it is increasingly important to competently manage water security and water scarcity related challenges on local and regional scale. 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, with the total of 120 attainable credits and 6 weeks of practical internship program.

Examples for international cooperation

The University of Miskolc Faculty of Earth Science and Engineering is among the most successful Hungarian actors of the Horizon2020 research programs. Out of its presently running 5 funded programs, two of them are directly linked to hydrogeology and geothermal energy exploitation (KINDRA, CHPM2030). Our teachers and research staff are responsible for the coordination of two RIA programs with multiple partnerships. Our Faculty is open to collaboration within the framework of other research and educational programs and professional missions.

PhD Program
Graduates with outstanding results have the opportunity to continue their studies at 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.

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UNIVERSITY OF PANNONIA

The University of Pannonia (UoP) in Veszprém welcomes students in the picturesque cities of Veszprém, Keszthely, Nagykanizsa, 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 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.

The University of Pannonia (UoP) is dedicated to the advancement, dissemination and application of knowledge pertaining to sustainable water management The basic courses prepare the students for special studies in Bioengineering, Environmental Engineering and Environmental Sciences; graduate studies in Environmental Engineering and Environmental Sciences and a postgraduate course in Water and Wastewater Treatment.
UoP´s graduate education and post-graduate training courses and studies including PhD grade in harmony with the research activities cover inter alia:

- Functional biodiversity in freshwater ecosystems along different spatial and temporal scales. An important training and test area is the Lake Balaton and its surrounding. Investigation of bioelectrochemical systems, anaerobic degradation methods for and membrane separation processes.
- Optimizing industrial and municipal wastewater treatment processes of different scales.
- Development and application of complex on-line monitoring tools of water bodies with early warning systems.
- Exploring treatment strategies and recycling technologies for thermal waters.
- Studying options for cost-effective waterborne micropollutant removal methods.

Prestigious international projects where UoP is a part contribute to the quality of the educational programs and post-graduates studies in the water management areas. Students are encouraged to join ongoing researches from early stage in their study activities in order to enhance their theoretical knowledge and practical and soft skills. Students may choose to enrol our university programs with joint internship at one of our many prestigious industrial partners.

Awards

- Outstanding University, ministerial-level recognition, 2010.
- Quality Award of Higher Education for the Faculty of Engineering, 2011.
- “Research Faculty” for the Faculty of Engineering, government-level recognition, 2013.

Academic partners - examples

- Water Resource Engineering, Lund University, Sweden
- Queensland University of Technology, Australia
- Kosice Technical University, Slovakia
- Gifu University, Japan
- Montanuniversitat, Leoben, Austria

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.
- Linde Gas Hungary Co.Cltd
- Huntsman Corporation
- municipalities, inspectorates and water supply and sewage treatment companies as well as regional water management units.

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UNIVERSITY OF PÉCS

PÉCSI TUDOMÁNYEGYETEM
UNIVERSITY OF PÉCS

About the institution

The University of Pécs is the oldest university in Hungary, founded in 1367. Currently, our university is the centre of knowledge of the Southern Transdanubia region, having 10 faculties, nearly 20,000 students and 1400 teachers and researchers. Our 300 study programmes and 22 research groups cover almost all fields of science, including Water Management and Hydrology.

The mission of the University of Pécs as a regional knowledge base is to help develop an innovation-oriented and knowledge-based economy. We also aim to create an environment necessary for the optimal flow of knowledge between local knowledge bases and innovative entrepreneurs, and to channel research towards the demands of the industry.

Description of trainings and courses related to water management

At the Faculty of Engineering and Information Technology we offer courses as part of Environmental Engineering BSc, Civil Engineering BSc and various post-graduate trainings: Water Management, Water Quality Protection, Transport Modelling and Wastewater Treatment Technologies.

The Curriculum of the Faculty of Law includes Water Law since the academic year of 2015-16. Water Law is offered for full-time students in 30 hours (Water Rights Management, Shipping Rights, Water Damage Control, Water Utility Rights, Water Rights Treaties, Civil Protection, and International Water Rights).
The Faculty of Sciences has gone through an outstanding development in the past two decades. Students can choose from 12 bachelor and nine master level programs. We also offer PhD degrees in four doctoral schools. The 21st century environment of research and education include modern lecture halls, laboratories and sport facilities.
The Earth Sciences BSc provides a general bachelor level education in earth sciences. The program includes Hydrology, Meteorology and Geomorphology. Other water management related courses are Geography, Biology, Physics and Chemistry BSc. Earth Sciences Doctoral School also provides diverse research topics.

Examples for international cooperation

University of Pécs - Faculty of Engineering and Information Technology “Water management with the application of active surfaces in built and natural environments” INTERREG EUROPE project, in cooperation with:
The Provincial Government of Teruel (ES)
Kaunas University of Technology Institute of Environmental Engineering (LI)
Estonian Regional and Local Development Agency (EE)
University of Pécs - Faculty of Sciences
Geographical Research and Cross-Border Cooperation within the Lower Basin of the Danube - universities from Bulgaria, Romania and Serbia

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EÖTVÖS JÓZSEF COLLEGE

Higher educational institution of water management.
53 years of experience in the education of engineers.

Eötvös József College (EJF) is 144 years old. We have five decades of experience in education and research of water management and water treatment technologies. Our engineering courses focus on water management (urban water engineering and flood- and inland water protection). Students can conduct scale experiments within our facilities that have their own water source (groundwater, Danube water and artificial wastewater). Our graduates are typically employed by water utility companies (public works, water supply and wastewater treatment) and water directorates (in flood protection, design and construction of dams).
Full-time and part-time courses in English:

- Civil Engineering
- Environmental Engineering BSc
- Business and Management BSc

Our Water Technology Laboratory site offers a hands-on learning experience which is unique in Hungary. Our field works are carried out at the College's measuring stations, in two different locations in the southern part of Hungary.

Courses available for postgraduate students:

- Flood Control and Inland Water Management
- Water-Supply and Wastewater Engineering
- Water Engineering Water Management Engineering

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KAPOSVÁR CENTRE OF VOCATIONAL TRAINING DRÁVA VÖLGYE GRAMMAR SCHOOL, TECHNICAL GRAMMAR SCHOOL AND DORMITORY

About the institution

We have been training water management specialists at the intermediate level for almost 50 years. Environmental protection, water management in particular, is one of the keystones of our training profile. We currently offer a wide variety of courses and several classes specialised in different fields, such as forestry, economics, information technology and tourism.
The modern infrastructure of our institution and the high standard professional conditions ensure the high quality as well as the success of the training in our school.

Description of trainings and courses related to water management

In our full-time (daytime and evening) courses we offer the following qualifications:

- Water-management technician
- Water-engineering technician
- Water-supply technician
- Water-construction technician
- Water-quality protection technician
- Part-time, out-of-school system courses:
- Water management
- Water management administrator

Examples for international cooperation

Lycée de Coulogne, France, Department of Aquaculture – student exchange programmes, professional field studies

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BÉKÉSCSABAI SZAKKÉPZÉSI CENTRUM VÁSÁRHELYI PÁL SZAKGIMNÁZIUMA ÉS KOLLÉGIUMA

(Pál Vásárhelyi Vocational High School in Békéscsaba)

Pál Vásárhelyi Technical Secondary School was established in 1950. In its initial years, the school trained prospective constructors of domestic water facilities. At present, our students are able to choose from a wide range of technical/engineering courses. One of the main objectives of our school is to provide high-level, comprehensive knowledge for our students by implementing cutting-edge technology. We also aim to provide them with qualifications that are in demand in the labour market.
Our students start to familiarise with their chosen trade, in the form of sectorial training, during their 9th year of school, and at the end of the 12th year they take vocational final exams. The great majority of them continue their studies at our school and after graduation they receive professional qualifications.
Pál Vásárhelyi Vocational High School of Békéscsaba offers full-time training for prospective highway engineering and maintaining, land surveyor and geoinformatics and production (oil & gas) technicians. In addition, construction engineering and water management are two popular specialisations in our curriculum. At present, we have 520 students in 20 classes.

Our water management related courses are the following:

- water management technician
- water facilities construction technician
- water resources engineering technician
- environmental protection engineer

We organise both full-time and part-time evening trainings. The partner organisations assisting our water management trainings are as follows: Alföldvíz Plc., Körös-vidéki Vízügyi Igazgatóság Gyula, Békés Drén Ltd.

We are currently seeking to extend our relations with foreign professional partners. We wish to establish partnerships with institutions which could provide conditions for the summer traineeship/internship of our students abroad.

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“SZEGEDI SZC GÁBOR DÉNES SZAKGIMNÁZIUMA”
GÁBOR DÉNES VOCATIONAL HIGH SCHOOL
SZEGED CENTRE FOR VOCATIONAL TRAINING, SZEGED

About the institution

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.

Description of trainings and courses related to water management

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 are participating 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 in water management in the future full-time, as well as part-time.

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BUDAPEST CHAMBER OF COMMERCE AND INDUSTRY / SECTION OF WATER INDUSTRY AND WATER TECHNOLOGY

Drinking water / Sewage water / Flood prevention / Water conservancy, irrigation / Hydroinformatics

The Budapest Chamber of Commerce and Industry (BCCI) has been in service for enterprises since 1850.
The BCCI, as the economic chamber with the biggest membership in the country has almost 4000 members from the field of commerce, industry, and services.
We help the profitable trading of small and middle-sized enterprises by creating local and foreign collaborations, having an effect on the development of the local economic life and the possibility to appear on foreign markets.
The water industry and the branch of water technology play significant roles in the sustainable development of the Hungarian economy.
Subsequently, the Section of Water Industry and Water Technology was formed.
We deal with the future of the segment and enterprises with high priority. We are also continuously seeking partners both in Hungary and abroad. The aim is to recommend the most effective solutions for the challenges of the market using the knowledge of the Hungarian water conservancy technology, the international trends and different business experiences.
For this reason, it is extremely important for the Section to build strong connections with governments, governmental organisations and economic operators on international level as well.

There is a possibility for Asia and Africa to become potential cooperating partners for the organizations of the Hungarian water industry.
As a reference, with the assistance of Hungarian organizations we have already completed successful projects in Asia and Africa.
We provide professional assistance to locate the most suitable Hungarian partners for future projects, fulfilling all aspects of design, construction (infrastructure) and operative tasks in connection with water.
We cover the following water related works:
Drinking water economy (water base protection, drinking water network, connecting technologies)
Refuse water and sewer (sewage filtering works, sullage pipe and relating technologies)
Flood - inland water prevention (embankment, storage lakes, connecting engineering systems)
Water conservancy, irrigation (provision of water tasks in connection with agriculture)
Hydraulic construction (waterworks, dams, relating systems)
Hydroinformatics (modelling, forecast)
For further information please contact the Chairman of the Section of Water Industry and Water Technology, Mr. Balázs SOPONYAI.

The member companies of the Section keep several references all over the world, covering all water related tasks, from planning to completion.
These tasks include:
designing and execution of sewage cleaning works and drainage, dam systems, water purifying machines, power plants, hydroinformatic models

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Sector and subsector

About

Products, services, innovative solutions

References

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GENERAL DIRECTORATE OF WATER MANAGEMENT HUNGARY

The General Directorate of Water Management is an operating institute and a central government body.

We coordinate flood damage related tasks in the plains, mountainous and hilly areas; agricultural water supply, urban water management and flood control, drainage and local water damage tasks.
We direct and coordinate major EU funded projects of water-related investments.
We set up national and regional water management strategies and plans and carry out the tasks of the international water management concepts.
We determine flood control and water management concepts and strategies. We work out the national and regional water damage control and water management programs, development plans and arrange their implementation and evaluation.
We supervise human resources for flood protection and the training of the protecting personnel against any flood events.
We participate in trans-boundary and trans-border related tasks and in any occurring international cooperation.
We work on the direction and coordination of all tasks for construction, development and management of protection systems.

We have worked out the National Flood Protection Strategy which contains a series of implementations of local flood risk management and development according to the strategic plans. To ensure the accuracy of the plans – with the involvement of the water management education and research background – such modelling processes and methods have been developed to the highest professional standards that are remarkable on an international level also. For the safe drainage of floods, we have developed a special hydrodynamic modelling process, which can be used to optimize the drainage of grand water riverbeds and the economic and public activities on the floodplains. The newly developed methodology is based on scientific grounds – it defines the DFL levels by the statistics of water flow. We have developed a forecasting system to evaluate water regime extremities, which provide basis for operative measures. The developed system can quantify the resource differences between water surplus and water deficit periods through the measured values of soil wetness, thus provides data supporting the operative work of the water management and the agricultural sector.

Further Development of the Vásárhelyi Plan – organization of the foreshore on the Middle Tisza (2016 – 2020)

- Improvement of the flood drainage capacity of the riverbed and flood safety in Besenyszög, Vezseny, Martfű, Tiszaföldvár, Tiszajenő, and Tiszaug.
  Kvassay Jenő Plan (2014 – 2015)
- The supervision of the river basin management plan nationwide, according to the EU Water Framework Directive, to define the strategic objectives.

Network of Danube Waterway Administration (NEWADA) (2009 – 2012)

- Improvement of the effectiveness of the waterway through the enhancement of the cooperation between the responsible authorities, carried out on the River Danube.

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HUNGARIAN CHAMBER OF COMMERCE AND INDUSTRY

Hungarian Chamber of Commerce and Industry

Sector and subsector

chamber of commerce and industry / multi-sectoral

About

Chambers of commerce and industry in Hungary have a long history: their traditions run back over more than 150 years. Currently the Hungarian Chamber of Commerce and Industry (HCCI) operates as an "umbrella-organisation", incorporating and co-ordinating the activities of 23 regional chambers on national and international level. Its voluntary membership comprises of over 20 thousand businesses from the commercial, industrial, handicraft and services sectors representing both companies and self-employed entrepreneurs. The introduction of a compulsory chamber registration system in 2012, enabling the HCCI to build a database containing the data of about 600,000 business entities, was a major contribution to improving the transparency of the economy.
HCCI's main tasks include fostering the development of the economy, promoting fair market practices and representing the joint interests of those conducting business activities. These activities are intended to strengthen the Hungarian business community, primarily the SME sector, and to increase their competitiveness on both the domestic and international markets.

Products, services, innovative solutions

International activities are focused in the HCCI-administered bilateral committees, business councils and joint chambers offering networking forums, information and business promotion services to companies interested in a particular country or region. To assist Hungarian entrepreneurs in exploring new partnership opportunities the Chamber organizes business forums, B2B meetings and trade missions. It also offers extensive information and consulting services. HCCI's online Export Directory, launched two years ago, is one of the most comprehensive online databases of Hungarian exporters, freely accessible for all foreign companies who are looking for specific products or services from verified Hungarian manufacturers and service providers.
Among the members of our bilateral committees are many water-related companies, such as the Budapest Waterworks or Hungarian Water Cluster.

HCCI also has a special co-ordinating role in state-managed vocational training, such as maintenance of the initial training contract system, development of training content, coordinating examination and Hungarian participation in the WorldSkills and Euroskills Competitions.

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Sector and subsector

About

Products, services, innovative solutions

References

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THE HUNGARIAN CHAMBER OF ENGINEERS

Water Industry

The Hungarian Chamber of Engineers is a professional public body established by the 19 independent county chambers of engineers under the Act No. LVIII of 1996 on the Professional Chambers of the Engineers and Architects. It has 20 professional sections which can have sub-divisions on county level. Members are also members of the county chamber of their home, and based on their respective qualifications and interests, are members of the professional section(s) too. Altogether the Hungarian Chamber of Engineers has almost 19,000 full members and is affiliated with another 13,000 registered professionals.

The most important public tasks of the Chamber:
We administer professional permit licenses on behalf of members and registered professionals nationwide focusing on the fields of designing, technical expertise, construction site management, and site inspection.
We help raise the professional and ethical level of engineering activities.
We participate in further enhancing technical regulations, standards and quality assurance systems.
We collaborate with institutions responsible for educating engineers and take part in forming and finalizing requirements for academic courses and certifications; we also organize CPD courses for chartered engineers.
We articulate opinions on legislation that applies to the economic background of engineering activities and protects professional interests.
We support young engineers to receive certificates and licenses in order to partake in individual activities (HCE Master School, Mentor Program).
Professional sections:
We devise sector development strategies and recommendations, we compile relevant technical-economic analyses and we assist in the development of relevant enactments influencing sector politics with the help of compiling professional documents related to such issues.

The Chamber is a member of the European Council of Engineers Chambers and the European Council of Civil Engineers and we actively take part in the activities of both organizations in order to form the relevant EU regulations.
We have a productive relationship with the engineering chambers of the Visegrád Group. Meetings are held regularly to help discussions regarding regional and national professional issues, improving ways to solve problems together.

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HUNGARIAN WATER ASSOCIATION

municipal water and wastewater management,
professional organization, knowledge transfer, cooperation

The Hungarian Water Association was founded in 1997. The Association has around 300 individual, institutional, local governmental, utility and company members. The members are mostly designers, operators, experts, students and professors from different institutions, universities and business entities dealing with municipal water and wastewater management, but we also focus on the professionals of the local governments and partner organizations.

The main activities and objectives of the Association are:

- Support technical and scientific cooperation between members
- Provide practical, technical and scientific information for members, municipalities and authorities
- Strengthen the cooperation with decision makers in the public water sector
- Cooperate with other civil local and international organizations in water related questions
- Strengthen the exchange of experiences between regions and neighboring associations and support the integration of the Hungarian water sector into the international professional network
- Organizing national and international conferences
- Support and integrate young scientists
- Develop, edit, distribute and provide educational services for technical and cost comparison guidelines

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Sector and subsector

About

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HUNGARIAN WATER CLUSTER

Sector and subsector

The activities of our member companies cover almost the entire scope of the water industry.

About

The Hungarian Water Cluster was established in 2008 to collect Hungarian companies from different fields of the water industry in order to unite their expertise, knowledge, capacity and vitality, as well as to offer complex solutions in water issues to potential partners abroad. The solutions offered by us are customized to individual and specific local requirements. Our activities cover the whole scale of the water industry. We currently have 30 member companies.
Our management has a significant role in the leadership of Hungarian (HWA Hungarian Water Association, HWUA Hungarian Water Utility Association), and international (EWA European Water Association, IAWD The International Association of Water Supply Companies in the Danube River Catchment Area, ASEM Water Asia – Europe Meeting Water Resources Research & Development Centre) professional organisations. The representatives of our member companies are regular participants of the business delegations accompanying the international meetings of the Hungarian Government.

Products, services, innovative solutions

We at the Hungarian Water Cluster offer world-class solutions from a single source in every field of the water industry.
In the area of water treatment, we design, construct and reconstruct water treatment plants, different structures, utility networks and wells. We provide water-loss analysis, and mobile water treatment equipment.
In the field of wastewater, we design, construct and reconstruct municipal and industrial wastewater treatment plants, municipal and industrial drainage systems. We also carry out biotechnological research.
We manage storm water, flood, inland water and ground water problems. We are the frontrunners of the market in storm water management (drainage, storage, infiltration) and we offer flood protection solutions.
Our engineering companies are aware of, and apply successfully, the advanced technologies of the water industry.
We offer solutions for geotechnical problems (erosion control, retaining walls, mass stabilization) and for treatment of contaminated groundwater.
We have members with extensive experiences in the operation of water and wastewater plants.
We offer business consulting, project management and IT services.
Our member companies have more than 30 patented products and technologies.

References

The member companies of the Hungarian Water Cluster have references in almost 50 countries.

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HUNGARIAN WATER UTILITY ASSOCIATION

Hungarian Water Utility Association

water utility association, drinking water,
wastewater, education & training

The Hungarian Water Utility Association was established in 1990 with the aim to act as an independent representative of the water sector's interests, intermediating trade development and engineering services. In Hungary, public water services are provided by state and municipally owned water utility companies. 41 public utilities operate under different structures and 38 of them are affiliated members of MaVíz, which in turn represents more than 98% of the country's public water supply network. In addition to this, more than 100 members represent the water industry and trade, institutes and engineering services. MaVíz has the duty to co-ordinate these organizations, which differ not only in size but also in the type of services that they provide. It is one of our strategic goals to promote the export products and services of the Hungarian water sector abroad and to share the knowledge and experience of the Hungarian water sector with our foreign partners.

Our members can provide skills and offer excellent solutions in water leakage detection practices, arsenic removal, the reduction of non-revenue water, the preparation of water safety plans and the design and construction of water supply and wastewater treatment infrastructures. We also offer a wide range of water meters, pipes, control software, complex water treatment technologies, machineries and laboratory equipment. In addition to recommending services of the water sector's producers and suppliers, we also introduce world famous knowledge and operational best practices of the Hungarian water utility companies.
Our Association also offers trainings and workshops in selected areas that can be tailored to requirements. The MaVíz International Training Programme was launched in 2016. It is exclusively designed for foreign students and employees of the water sector who wish to acquire new practical skills, knowledge, experience and best practices in various topics from the experts of the Hungarian water utility sector.

United Water Supply Company of Georgia (UWSCG) (April, 2016)

- Training topic: "Non-Revenue Water (NRW) management" and best practices in Hungary

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Companies

Sector and subsector

About

Products, services, innovative solutions

References

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3M HUNGÁRIA LTD.

Drinking water / pipe systems
pipe renewal

3M is a leading global technological company, based in St. Paul in the USA. For more than a hundred years, it has been engaged in developing innovative products and solutions for industry, power generation, telecommunications, safety, security, health care, office and household. 3M has a diversified product portfolio, comprising more than 50,000 products. All of our products represent innovative solutions in their respective areas; they are clever and efficient, and in addition, they support sustainability, safety and people's health.

3M™ Scotchkote™ Pipe Renewal Liner 2400 – Bring new life to old pipes, affordably and sustainably
Our Scotchkote Liner 2400 is an easy, affordable way to maintain aging infrastructure, and protect the community.
Corrosion and tuberculation can result in water discoloration and odour, leaks and pressure loss. Lining with Scotchkote Liner 2400 helps restore pipe diameter, inhibit corrosion and tuberculation, and enhance pipe structure.
Don't replace — renew!
Our Scotchkote Liner 2400 product helps to rehabilitate and protect existing infrastructure.
It also helps to:

- Protect water quality by inhibiting corrosion and tuberculation that can lead to colour, taste and odour issues.
- Maintain water flow by resisting build-up.
- Reduce leaks by sealing holes up to 6 mm and gaps up to 5 mm wide.
- Preserve asbestos-cement pipes by preventing matrix deterioration.
- Extend asset life by enhancing the pipe structure.
- Minimize community disruption by reinstating pipes in as little as 90 minutes after lining, per local regulations.

The Scotchkote Liner 2400 thickness can be adjusted in the field, using the same crew, equipment and product, to enhance the pipe structure and accommodate unexpected structural issues.

3M Scotchkote 2400 has been successfully applied to over 100km of drinking water pipelines all over the world, including over 45km in Western and Central Eastern Europe.

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AQUACUST WATER-LOSS ANALYSIS COMPANY LTD.

Drinking water/Engineering
water-loss analysis; localization of hidden leakages and burst pipes

AQUACUST primarily concerns itself with instrumental water-loss analysis, surveying, tracing and localization of hidden leakages and burst pipes 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 Metropolitan 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 because our company uses 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 SebaKMT leak detection instruments. We also deal with the development of new test methods.
Key results (1985 - 2015):

- Length of all surveyed water mains: 22,190 km
- The number of defects found: 14,650 pieces
- All water-loss found by leakage detection: 14,150 m3/h
- All water-loss found by leakage detection: 123,931,100 m^3 (on yearly level).

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 & 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 & leakage detection services
    - Budapest Waterworks PLC.– Budapest & its supply area 1996-2003; 2014-
    - DMRV PLC. (Regional Waterworks) – Vác & its supply area – 2013-
- Yearly Service Agreements (Waterworks)
  - Water-loss analysis & leakage detection services
  - BORSODVÍZ PLC.; DEBRECENI VÍZMŰ PLC.; DRV PLC. (REGIONAL WATERWORKS); FEJÉRVÍZ PLC.;
  - HEVES-MEGYEI VÍZMŰ PLC.; PANNON-VÍZ PLC.; SOPRONI VÍZ- ÉS CSATORNAMŰ PLC.; VASIVÍZ ZRT
- Servive Agreement (Industries)
  - Leakage detection services
  - MVM PAKSI ATOMERŐMŰ PLC.; MOL NYRT.; BORSODCHEM NYRT.; MÁV PLC.; CHINOIN PLC.;
  - HANKOOK TIRE Magyarország Ltd.; VIDEOTON Industrial Park

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AQUA CONSTRUCT PLC.

Sector and subsector

Engineering/Water treatment
Drinking water pipe systems; water treatment technology; wastewater treatment technology; sewerage systems

About

Our company was founded in 1990 by the engineering staff of the prestigious metropolitan specialist engineering companies.
Early on in our commercial history, our activities were mainly focused on engineering, developing and constructing water utilities, in particular working out complex technological procedures.
After completing numerous successful projects, we became a Limited Liability Company under Hungarian law in 1994.
Apart from this change in our company's form, a similar transition took place within our activities as well: as public procurement procedures developed and tendering structures in Hungary evolved in their functioning, our activities and services gradually expanded and altered in order to adapt to new market environments. This adaptation was successful due to the experience of our staff.
In addition to construction, our design services have become more and more important.
Between 2007 and 2015, most of our projects were implemented with the help of EU funding.

Products, services, innovative solutions

The professional profile of our company covers the following areas:

- Planning of different regional and local systems of water supply, rainwater drainage or sewerage with connected works (hydraulic, road system), either in the form of greenfield investment or reconstruction.
- Planning of water and wastewater treatment plants with necessary drinking or industrial water treatment processes.
- Integrated engineering services for the projects, from hydro-geological research work to water supply or sewerage system realization.
- Providing assistance to the technical documentation of EU tenders for constructions of water supply systems, implementation following

References

1. Region of the Southern Great Plain Drinking water quality: reparatory works with the aid of the cohesion fund, working on the insurance of the drinking water quality so that it is equal to the prescribed values (water works settlements from 10,600m^3/day to 14,000m^3/day)
2. In Harghita county (Romania), working on the development of a public utility water supply (126km drinking water provider being established newly alley pipe-work)
3. In the Veresegyház agglomeration area: extension of the sewage treatment program, various modernisation activities and organising the sewer building complex branch designer's activities, and water management (43,082 m gravitational network (header pipe), 5,246 m presser cable, 134 pieces home-made sewage transferring)

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Sector and subsector

About

Products, services, innovative solutions

AQUA ENGINEERING

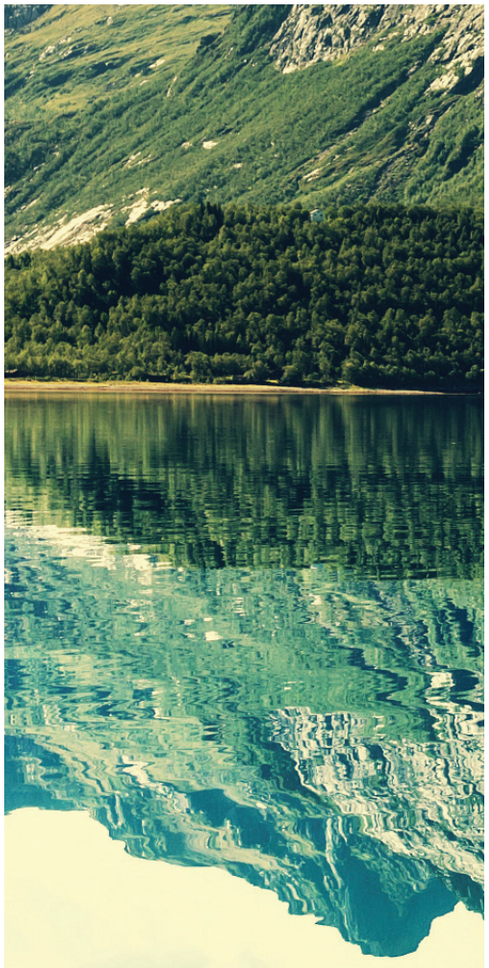
Water Technology Group
Austria I United Arab Emirates I India

Sewage treatment, drinking water, seawater desalination, industrial process water, support services

Founded as engineering company in 1963, AQUA ENGINEERING today is a supplier of tailored water and wastewater treatment system solutions in the fields of municipal sewage treatment, water reuse solutions, potable water treatment systems and reverse osmosis desalination plants for brackish water and seawater. Our professional services range from plant audit and feasibility studies, plant design, process engineering, M&E equipment supply, EPC contracting, supervisory and plant O&M services, owner and operator training to project financing. We have successfully delivered worldwide over 100 reference plants of which over 50 are larger scale municipal water, sewage treatment and desalination plants. Our reference installations are located mainly in the Middle East, Europe, Southeast Asia and China. The plants successfully treat over 2 million m^3/day of municipal sewage and supply over 3.5 million m^3/day of drinking water from land based raw-water resource and seawater for our customers. We provide an integrated approach to our customers and continue to seek for sustainable solutions both on technical and commercial base to secure long-term viability of our projects in the field.

Our SCOPE OF SERVICES

- Due diligence and plant assessment
- Feasibility studies
- Process & plant engineering design
- Procurement & supply of equipment
- Installation or erection supervision
- Plant start-up & commissioning
- Plant operation & maintenance
- Staff training & capacity building
- Technical assistance
- Water re-use & recycling
- Water management solutions
- Sourcing of project financing



Our TECHNOLOGY BASE

Aqua Engineering provides a variety of process technology applications for conventional and advanced water treatment for both municipal and industrial plants.

Water Treatment

- Various sedimentation solutions
- Contact sludge reactors
- Gravity & pressure gravel and multilayer filtration
- Micro-, ultra- and nanofiltration
- Reverse osmosis
- Electro de-ionisation
- Ion exchange
- Ozone treatment
- Dissolved air flotation, a.o.

Wastewater treatment

- Screen systems
- Grit and grease removal
- Activated sludge plants (conventional, SBR, MBR)
- Nutrient removal
- Disinfection (chlorine, UV)
- Sludge treatment (thickening, digestion, dewatering)
- Sludge drying, a.o.

AQUA ENGINEERING – delivered performance – since 1963

Water is Our Life

Our KEY REFERENCES

DRINKING WATER PLANTS

- Brasov WTP (129,600 m^3/d), Romania
- Sibiu WTP (129,600 m^3/d), Romania
- Butoniga WTP (86,400 m^3/d), Istria, Croatia
- Neijiang WTP (135,000 m^3/d), China
- Shantou WTP (400,000 m^3/d), China

DESALINATION PLANTS

- Hamriyah Seawater RO Desalination Plant (91,000 m^3/day), Sharjah, United Arab Emirates
- Al-Fatah Seawater RO Desalination Plant (58,800 / 131,500 m^3/day), Jubail, Saudi Arabia
- Al-Zawrah Seawater RO Desalination Plants (72,800 m^3/day), Ajman, United Arab Emirates

SEWAGE TREATMENT PLANTS

- Fuxin STP (100,000 m^3/day), China
- Kaili STP (100,000 m^3/day), China
- Ljubljana STP (103,500 m^3/day), Slovenia
- Liaoyang STP (200,000 m^3/day), China
- Yangshou STP (100,000 m^3/day), China

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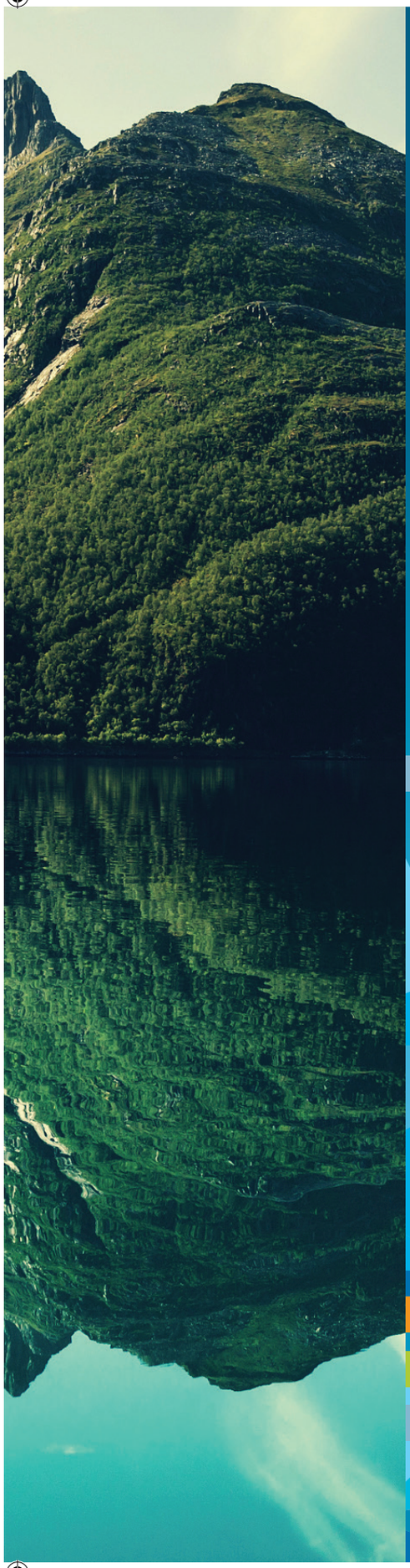

References

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Sector and subsector

About

Products, services, innovative solutions

AQUAPLUS WELL DRILLING, CONSTRUCTION AND THERMAL ENERGY LTD.

Water management / engineering
Drinking water, well drilling, thermal water, water treatment

AQUAPLUS Well-Drilling, Construction & Thermal Energy Ltd. was established on 15 September, 1989 in Hungary.
Our company has an Integrated Management System according to ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 (MSZ 28001:2008). By operating the three systems, an integrated management system covering all fields of our activities has been developed to ensure compliance with the customer's expectations.

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 centers 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 drilling rigs which are capable to drill from shallow monitoring wells to 3000 m deep thermal water wells (production and reinjection as well).
Our potential partners in case of thermal wells are:

- Local governments (public institution heating while replacing fossil fuels)
- Thermal baths
- Agronomical participants (greenhouse heating)

Regarding thermal wells, we are able to construct complete geothermical systems with significant references.
Our potential partners in case of cold water wells are:

- Public supply waterworks
- Mineral water companies
- Industrial companies

References

Construction of 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.

- Mineral water well – Szentkirály, Naturaqua-Zalaszentgrót
- 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

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Sector and subsector

About

Products, services, innovative solutions

AQUAPROFIT ENGINEERING, CONSULTING AND INVESTMENT LTD.

Water management/Engineering
mineral water; thermal water; medical water; industrial water; surface water; groundwater R&D&I

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 and management and construction services in the fields of Water, environment, Energy, Tourism and Regional Development. Due to its excellent staff composition - more than 100 full-time employees - water engineers, hydrologists, hydrogeologists, geologists, landscape architects, environmental and civil engineers, economists, Aquaprofit Co. is market leader in water management and environmental protection in Hungary. We have substantial 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 and is supported by 5 more offices in Hungary, Romania, Croatia, China (Shenzhen) and a branch office in Belgium.
Our client list includes the European Commission, national and local governments, clusters, state owned companies, private enterprises and engineering companies. Innovation of sustainable water solutions is in the focus of the company's Research & Development activities.

Environmental and Water Management
- Programs to assess, evaluate and improve drinking water quality (planning, design and implementation, including construction)
- Environment and water source protection, sustainable water-use (feasibility studies in environment and water basin conservation)
- Hydraulic construction planning
- Water supply systems
- Flood protection through regulation plans for lakes and running waters
- River and floodplain rehabilitation
- Renewable energy sources - engineering
- Geothermal energy Regional Development and Tourism Division

Regional Development and Tourism
- Thermal baths development
- Health, medical and eco-tourism
- Urban planning, green and blue infrastructure designs
- Complex landscape management and rural development plans
- Provide a green solution for our clients combining achievements in the fields of water, energy and the environment.

Project Financing
Development and management of EU-funded projects and contracts under various programmes (FP7, LIFE, CIP-IEE, CIP Eco-innovation, EuropeAid, etc.), mainly in the fields of water, environment, energy and tourism.

Research & Development & Innovation
Sustainable water solutions in water treatment technology

-Improving drinking water quality: programmes to assess and improve the drinking water quality in Hungary – 22 projects, 35 billion project NET value; 2010-2016
-Environmental protection: Zalaszentgrót bottling plant of CCHBC Magyarország Ltd.; 2005
-Development and protection of water sources for mineral water bottling: Kékkút Mineral Waters Co. – Nestlé Waters Hungary; 1999-2016
-Complex water protection: Kis-Balaton Water Protection System; 2007-2010
-Flood protection: Danube Project – (structural flood protection); 2008-2009
-Tourism developments: Sárvári Gyógyfürdő Kft – Spa and Hotel Complex in Sarvar; 2006
-LIFE+: Eastern-Bakony and Hungarian Little Plain; 2009-2015
-EU tender: CarpathCC Climate Change Framework Project; 2012-2013

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BALLY HOLDING TRUST LTD.

Sector and subsector

Environmental engineering/Project management
Environment and Infrastructure Development
Project management services and additional activities in the fields of renewable energy

About

Bally Holding Trust Ltd. has a special role in the fields of management and tender dossier writing in Hungary. We provide professional services for renewable energy projects from the planning phase all the way to the implementation phase.

The company was founded in 2011. Although it is a relatively young company, we have a large customer base throughout Hungary. We have gradually expanded in the last five years: currently 9 people strengthen our team. Initially, the company secured professional and consultative services in order to support the realization of development investments in, among others, small power plants, water supply and wastewater purification. Numerous successful Environment and Energy Operative Program tenders are traceable to us and we have participated actively in the implementation of these as well.

Products, services, innovative solutions

The company deals with tendering opportunities of the 2014-2020 EU project cycle, among others:

- mapping of tendering opportunities
- professional tender consultancy
- generation of projects
- full scope of tender writing
- project management
- project aftercare
- as a result of our extensive range of partner relations, we help in the realization of public procurement processes and obligatory publicity.

References

1) Beneficiary: Transdanubian Regional Waterworks Corporation
   Subject: planning of and preparation for recycling of sewage sludge with the intention of promoting investments
   Project ID: KEOP-7.9.0/12
   Amount of grant: 3,400,000 USD
2) Beneficiary: Transdanubian Regional Waterworks Corporation
   Subject: planning of and preparation for utilization of renewable energy to promote investment
   Project ID: KEOP-7.9.0/12
   Amount of grant: 2,150,000 USD
3) Beneficiary: Municipality of Herend
   Subject: energy modernization of municipal buildings
   Project ID: KEOP-5.7.0/15
   Amount of grant: 530,000 USD
4) Beneficiary: Miskolc Heating Services Ltd.
   Subject: modernization of the district heating system
   Project ID: KEOP-5.4.0/12
   Amount of grant: 490,000 USD

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Sector and subsector

About

Products, services, innovative solutions

BDL ENVIRONMENTAL LTD.

Environmental engineering / consultancy
asset evaluation and consultancy

We are committed to offer our partners personalized, systematic solutions in all aspects of the water sector in the field of:

- drinking and fresh water purification
- municipal and industrial wastewater treatment
- storm water management
- environmental remediation
- asset evaluation, asset management consultancy
- reconstruction planning
- financial and economic consulting
- investment planning

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.

Our colleagues in the different segments of the water sector possess outstanding professional and innovative knowledge – they have, in fact, been known and recognized in many parts of the world. As a member of the Hungarian Water Cluster, alongside 24 other corporate members, we can rely on the expertise and resources of more than 2000 colleagues.

We carry out the planning, design and development of the networks point-like, plant-like facilities. Furthermore, we regularly participate in the expansion, modification and reconstruction of existing networks and facilities. Our services cover the full range of engineering, construction and investment preparatory tasks:

- Technical Condition and Environmental Assessment (eco-audit)
- Feasibility studies, option analyses
- Cost-benefit analyses (CBA)
- Dynamic Cost Comparison (DCC)
- Life-cycle costing (LCC)
- Management of licensing processes
- Preparation of tender documents
- Detailed design, construction plans
- Test operation documentation and supervision (management, remote control and supervision)
- Asset evaluation, creating the structured utility asset database for utility inventory (TIKA - Integrated Utilities Assessment Database)
- Asset management for operators, municipalities and utility owners

We also provide technical and economic evaluation activities: by systematic assessment and determining the real asset value we can provide complex suggestions to improve the effectiveness and optimize cost-efficiency of existing facilities, besides decreasing operational costs and improving the overall sustainability of water services.

References

Vietnam, Quang Binh, drinking water purification plant (100,000 PE, 10,000 m3/d, 2016)
Iraq, Al-Dour – Salah Aldeen, communal wastewater treatment (9,308 m3 /d, 46,542 PE, 2015)
Russian Federation, Yekaterinburg, industrial wastewater treatment (15,000 m3/d, 100,000 PE., 2014)
Hungary, Simontornya, environmental remediation (groundwater treatment, 2012)
Hungary, asset evaluation (1868 settlements, 46,700 km network, technological and other “point like” facilities, 2015)
Germany, “Project Appraisal Manual for DCC calculation guidance of water supply and wastewater disposal projects in Hungary, Bulgaria, Slovakia and Romania“ (2011)
Austria, “Consulting services for improvement of efficiency and business planning of water utilities” (2016)

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BIOFIVE BOILER DEVELOPER, MANUFACTURER AND OPERATOR PLC

Sector and subsector

Environmental engineering/Wastewater management
waste to energy; green energy generation; utilization phosphorus and CO2 of flue gas; no fossil fuels

About

The BIOFIVE Boiler Developer, Manufacturer and Operator Plc (hereinafter BIOFIVE) Hungarian SME developed the BIOFIVE-ENTECCO technology within the confines of a German-Hungarian cooperation applying its patents and utility models. The technology is capable of safe, environmental and health-friendly disposal of environmentally harmful/hazardous organic communal waste (sewage sludge) without the use of fossil energy sources. The heat generated, the CO2 content of the flue gas and the phosphorus content of the ash are utilised, as well. At this stage of the development, we can present a working prototype for the thermal disposal of sewage sludge in Eger. The technical level of our technology is TRL 6.

Products, services, innovative solutions

The Thermal Waste Disposal Plant disarms the organic waste (sewage sludge) using the energy in its material. The generated energy is utilised in the form of heat energy and electrical energy. The system is heated up by biomass (wood chips, wood pellets) or biogas. The system provides the incineration of waste without the use of any fossil fuels resulting in a positive energy balance. The energy generated this way is renewable i.e. green energy which results in CO2 savings and thereby it reduces the carbon footprint.
Compared to other methods our disarming process and utilisation of the sludge is done in a closed and strictly controlled system by issuing a minimum impact on the environment.
The resulting thermal waste disposal and utilisation plant is implemented in a closed system which has actually no harmful impact to health and the environment while saving fossil fuels and producing raw materials for use. Thereby we would like to utilise the CO2 content of the cleaned flue gas in alga cultures and in greenhouses. We reduce the heavy metal content of the resulting ash to reveal the valuable materials we want to produce various fertilisers for the agriculture industry.

References

THERMAL DISPOSAL PLANT at Eger (Hungary) at wastewater treatment plant

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BIOPOLUS

Sector and subsector

Water treatment facilities/Implementation
Circular economy; sustainable urban development; water and wastewater treatment; water reuse

About

BIOPOLUS is a technology provider, research and development organization based in Budapest, Hungary.
To adapt to the ever-changing demands and continuous growth, cities need to become smarter. In order to become economically and ecologically sustainable, cities need to radically improve their resource utilization by closing the loops. In this area biotechnology is a key enabler of water recycling and organic resource reclamation.
In combining our water engineering experience with our architectural and ecological engineering knowledge, BIOPOLUS has developed a unique solution for this specific market. The primary focus area of BIOPOLUS is to provide a long term, sustainable solution for innovative water treatment and reuse, with optional secondary biological production systems and urban farming solutions. Biopolus integrates water recycling, biological manufacturing, energy recovery technologies and community functions (like office, education, entertainment, etc.) in a modularly designed and architecturally compact system that fits into any densely populated urban environment.

Products, services, innovative solutions

We provide:
Metabolic Network Reactor 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.
BIOPOLUS Hub: BIOPOLUS Hub is an integrated water recycling and biological manufacturing system to be built in densely populated urban environments, including public spaces for community interaction and education. Biopolus Hubs represent a new era in sewage treatment and water recovery solutions specifically developed for urban environments.
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 fog-reactor technology to grow high value plants for food, feed, pharma and cosmetics purposes.

References

Koningshoeven Abbey Brewery: development of a Biopolus Hub (including wastewater treatment & reuse) and community center. Tilburg (NL), 2016
Living Island Urban Farm: the joint urban farming project of Budapest Waterworks and BIOPOLUS. Development and pilot testing of the aero.green system as a first step toward its commercialization. Budapest (HU), 2016
Modelling of Budapest Central WWTP: preparation of a dynamic computer model for the largest Hungarian WWTP which will be used to make accurate and efficient future improvements to the plant. Budapest (HU), 2016
Shenzhen DIDA Water: wastewater treatment plant, water recycling system and urban park development designs for several Chinese cities in collaboration with our main Chinese Partner.

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BLE-SYS HEWA SYSTEMS AND ENGINEERING LTD.

Water and wastewater treatment facilities/Implementation
drinking water; sewage water; rain water; flooding management;
water reuse; energy from waste; environmental consulting; risk analysis

We provide innovative, customized solutions and services to most industries, specifically urban and industrial water and wastewater, petrochemical, food and processing, pharmaceutical, oil and gas, steel and mining industry, paper and packaging, power generation and agriculture.
We have an outstanding approach to engineering and direct relationships with manufacturers and suppliers. We also offer professional customer service and apply state-of-the-art technologies in order to supply market leader products and integrated solutions to our clients. Next to supplying equipment, we also design and manufacture integrated, innovative, turn-key solutions.
We hold research and development activities and collaboration with national universities highly important.

Our portfolio covers turn-key solutions and products, from the wells to the output of WWTP's, and also from feasibility studies and design through manufacturing and installation, depending on the assignment at hand.
Our potential customers and partners include local councils, governments, waterworks companies, general contractors and construction companies. We provide our partners with full services and turn-key solutions in the field of complete waste and water management.
Throughout our research and development activities we focus on fields such as active sludge treatment, precious material recovery from sludge, including phosphorus, energetically independent WWTP etc.
In the field of environmental friendly solutions, we have developed one of the most recognized, innovative products on the market, which is our EPPS-DMS sewage pumping station, with a unique solid separation system.

Some of our references:

- 9 pcs of EPPS-DMS pumping stations, Romania – Satu-Mare county, 2012-2013,
- 11 pcs of EPPS-DMS pumping stations, Romania – Hunedoara county, 2014-2016,
- raw water treatment plant for 22,500 inhabitants, Romania – Tg Lapus, 2014-2015,
- 20 pcs of sewage pumping stations, Romania – Baia-Mare county, 2013,
- a few small raw water treatment plants around Transylvania – Romania, 2012-2015,
- potable water chlorination station 2-50l/h capacity, Romania – Tg Mures county, 2016

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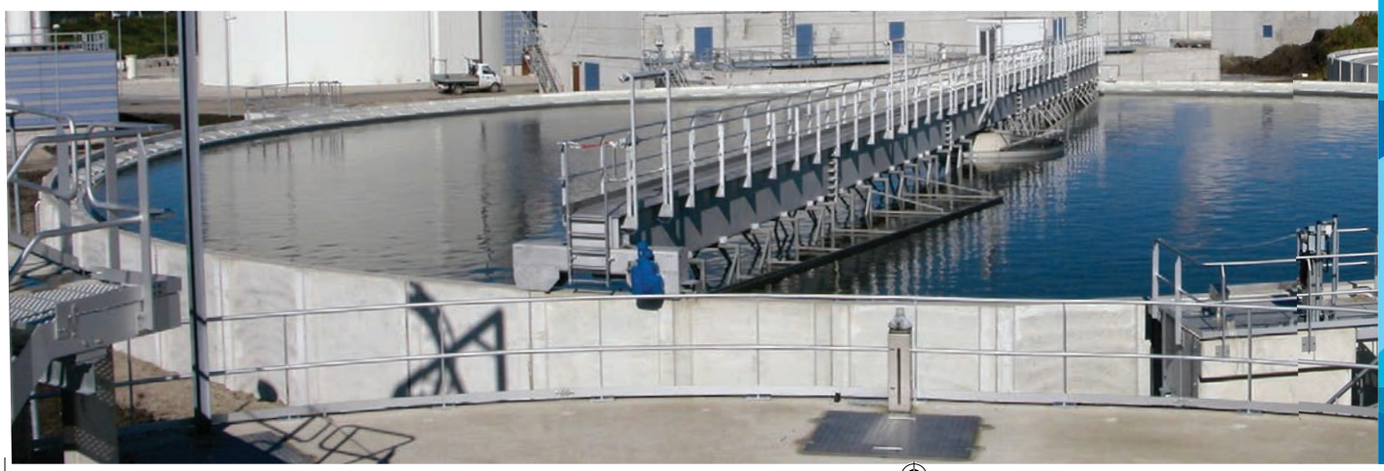

BONAVENTURA GOLD LTD.
- PRIMUS MINERAL WATER

Sector and subsector

Drinking water/Mineral water bottling
natural mineral water

About

The Bonaventura Gold Ltd. is specialized in 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. The 17,400-year-old water gushes from the 452 meter deep karst, created approximately 235-239 million years ago, during the Triassic ages. This untouched, extraordinary good quality water contains valuable minerals, such as calcium, magnesium, hydrogen carbonates, and sulphates. The water's uniqueness is assured by the silica content, which is the pledge of eternal youth according to scientists. The water is bottled for our customers in its natural form, without any water treatment. Primus mineral water is slightly alkaline (PH=7.53) tasting, neither salty nor bitter, it tastes natural and neutral.

Products, services, innovative solutions

A growing number of people, worldwide, are recognizing the importance of a healthy diet, which also generates more demand for natural mineral water. With its exceptional quality, chemical content and packaging, Primus mineral water is positioned in the premium category of products. Our potential costumers and partners are importers and wholesale distributors, who are interested in such category of mineral water. We also work with distributors for premium food chains, hotels, restaurants, spas, coffee shops, catering chains, and airlines etc.

References

Awards:
Count Széchenyi Foundation Board award for the best company in the category of innovation in 2016.
Hungarian delegation on CEEC Expo, Ningbo, 2016 June, with Mr. Péter Szijjártó, Minister for Foreign Affairs and Ms. Cecília Szilas, ambassador of Hungary in Beijing.
Chinese – Hungarian business forum organized by chamber of commerce in Budapest, 2016.
World water day and business meeting in Boscolo, 5 stars Luxury Hotel Budapest, 2016.
Slovenian – Hungarian business forum in Ljubjana, with Mr. Viktor Orbán, Prime Minister of Hungary, 2016.
Opening ceremony of Hungarian Consulate in Sao Paulo, Brazil, 2015.
Meeting of the Hungarian Prime Minister, Viktor Orbán and the South Korean President, Park Geun-hye at Hotel Lotte, in Seoul.
The CEO/owner of Bonaventura Gold Ltd., Mr. László Regőczi was a member of the business delegation in Seoul, 27-28th November, 2014.

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Sector and subsector

About

Products, services, innovative solutions

References

BONEX CONSTRUCTION LTD.

Engineering/Pipe systems
Reconstruction of public pipelines; water, gas and sewer by trenchless technologies

Our company was founded in 1982, mainly for the execution of civil engineering projects. Since then, our most important field of activity has been the reconstruction of public pipelines by trenchless (NO-DIG) technologies. Nowadays, Bonex is one of the market leaders in the field of NO-DIG technologies in Hungary.
Currently, we have approximately 100 employees and we are actively working all over Hungary. We have also carried out pipeline works in several European cities and cities worldwide.
Our mission, throughout the past decades, has been to implement the complete range of NO-DIG methods. We have been cooperating with the largest European pipe manufacturing companies, in order to be able to offer the best technical solution to our clients and to meet their requirements.

The most important methods applied by Bonex are:
- reconstruction by GRP pipes built-in one by one
- close-fit lining by HDPE pipes (Compact Pipe technology and Swage-Lining technology)
- cured-in-place pipelining (CIPP method) by epoxy resin
- pipelining by flexible hose (PrimusLine technology)

We are convinced that our NO-DIG technologies described below have special advantages compared to traditional reconstruction of public pipelines in open trenches.
Our execution works are supported by our own capacity of producing GRP pipes. Our factory – having 50 employees – can produce pipes of special shapes and sizes with the trade name Budaplast principally for the reconstruction of united sewer systems in big cities.

Our most important customers are large public utility companies, municipalities, industrial plants, companies of the oil and chemical industry, pharmaceutical factories, and sugar factories, namely
- Sewer Works of Budapest
- Water Works of Budapest
- Gas Works of Budapest
- Regional Water Works along the Danube
- Nyírségvíz Plc.
- Richter Gedeon Plc
- Egis Pharmaceutical Plc
- Nitrogénművek Plc
- MOL (oil and petrochemical group) etc.

Beyond our projects in Hungary, we have executed successful works in
Europe and around the world:

- Poland
- Spain
- Austria
- Belgium
- Italy
- Romania
- South Africa
- United Arab Emirates

During the past years we have executed pipe reconstruction projects with the following length, sorted according to different technologies:
GRP pipelining: over 40,000 m
Compact Pipe: over 30,000 m
CIPP pipelining: over 30,000 m
Primus Line: over 5,700 m
Sewage Lining: 710 m

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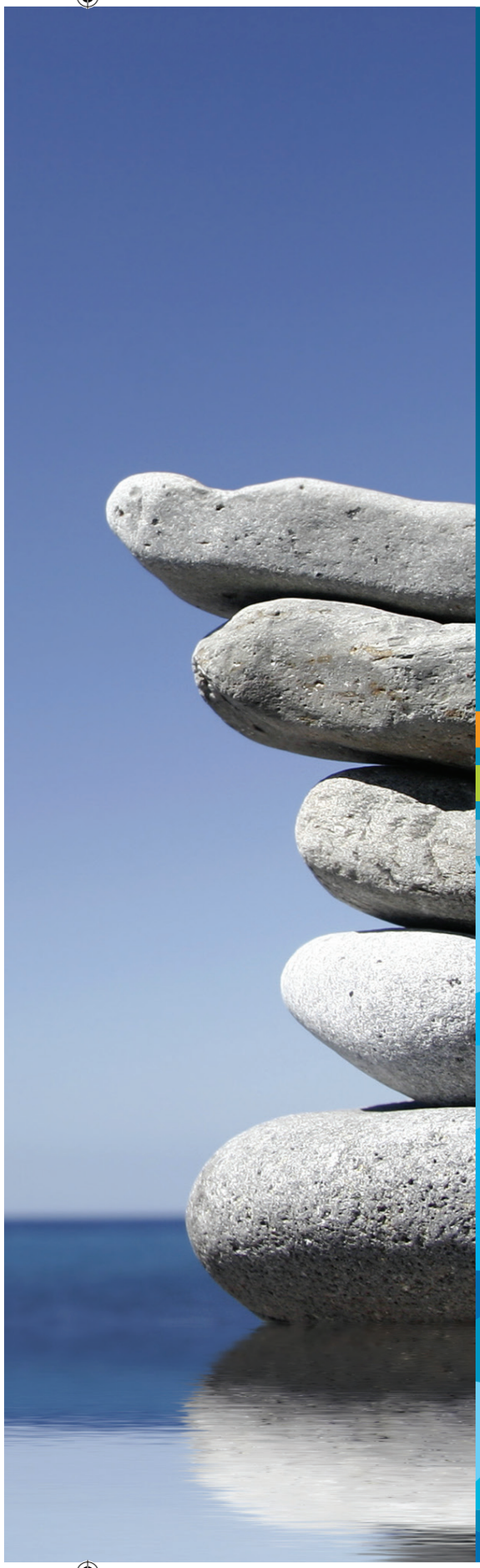

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BUDAPEST SEWAGE WORKS PTE LTD.

Fővárosi Csatornázási Művek Zrt.

Sector and subsector

Sewage water (Sewer network operation, wastewater treatment, bioenergy production, flood and inland water protection)

About

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 in Budapest, the capital with a population of 1.7 million inhabitants, 191 pumping stations, two wastewater treatment plants and, in case of floods, it is also responsible for flood protection works along an approximately 90 km long embankment section of the River Danube.

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.

All employees of the company wish to serve the needs and requirements of the communities they serve in compliance with the technical, social and human requirements of the 21st century, at a high level, in a customer friendly and innovative way.

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BUDAPEST WATERWORKS

Water management/Public utility services
Drinking and Wastewater; Design and construction;
Operations; Business consulting; Engineering

The core activities of the almost 150-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 in the longterm, 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. Our Company not only designs and partly implements its own projects with its own capacities and with the involvement of subcontractors, but also accepts more and more external project orders all over the world.

Budapest Waterworks, founded in 1868, supplies 2 million people with healthy potable water or sanitation services in Budapest and in the conurbation area.
Having undergone major transformations, developing from a socialist city potable water utility to 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 beside many more areas.
Besides offering our expertise to potable or wastewater supply companies, utility companies, as well as municipalities, governmental and non-governmental institutions searching for ways to reform and improve their water related utility services, Budapest Waterworks 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.

Indonesia
Construction of water treatment plants (72 m^3/h or 144 m^3/h capacity) in 34 locations.
Sri Lanka
Rehabilitation and expansion of two water treatment plants supplying the capital city with potable water. Kalatuwawa will be extended from 71,000 m^3/d to 90,000 m^3/d, whereas Labugama from 40,000 m^3/day to 60,000 m^3/day.
Azerbaijan
Introduction of electronic workforce management system, design and technical supervision of two potable water reservoirs, preparation of the ten-year IT strategy of the state owned water utility company, AZERSU.
IAWD – World Bank
Elaboration of business and long term development plans for water utility companies in the West-Balkans focusing on customer services, revenue collection and reduction of non-revenue water.

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BUDAPLAST LTD.

Sector and subsector

Pipe systems/ Pipe and fitting manufacturing
Production of glass-fibre reinforced polyester pipes, profiles and other products

About

Our company produces GRP pipes since the second half of the 1970's.
On the basis of our past three decades of experience in the territory of production, execution and operation, products known with the trade-name Budaplast play an important role in the construction and reconstruction of public pipelines.
The production plant of Budaplast Ltd. in Rózsaszentmárton owned by Bonex Co. Ltd. produces a wide range of GRP products, such as various pipes, profiles, tanks, shafts and other products. The egg-shaped GRP pipes are of special significance, as they are the most important material for the reconstruction of united sewer networks in cities.

Products, services, innovative solutions

Our main activity is the production of glass-fibre reinforced polyester pipes and fittings. Beyond the products made especially for individual projects, the egg-shaped pipes of standard sizes are the most important part of Budaplast's product range.
According to their geometrical parameters, our pipes can be classified as follows:

- egg-shaped pipes
- circular pipes
- semi-circular, elliptical, oval and individual pipe profiles

The filament winding production process makes it possible to produce products of various measurements up to sizes fitting into a circular shape of NA 3000.
In order to enable GRP pipes of various sizes to be rapidly installed and easily connected, we offer bends, branches, saddle pieces and shaft elements. Besides the pipes and pipe profiles, the following products of individual sizes meeting the customers' special requirements are also of great importance:

- shaft elements for sewage diversion
- bottom pieces of shafts for sewage diversion fitting the pump to be installed
- tanks for storing drinking water, storm water or irrigation water
- other types of special GRP products

References

Our most important customers are companies operating in the civil engineering industry, chemical plants and pharmaceutical factories:

- Bonex Építőipari Ltd.
- Sewer Works of Budapest
- Penta Ltd.
- ETERTEC GmbH
- Amiantit Pipe Systems SRL, Romania

During the last decade, our company has produced more than 43,000 meters of GRP pipes of various sizes which have been installed in different European countries – Hungary, Romania, Poland, Austria, Germany, and Switzerland. Our products have been applied for the sewer reconstruction projects of many Hungarian cities, e.g:

- Budapest – more than 40 km
- Nyíregyháza – ca. 10 km
- Makó – ca. 1 km
- Debrecen – ca. 3 km, etc.

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CARBOTECH MAGYARORSZÁG LTD.

Water management/Civil engineering
Wastewater, sewage water, agriculture, irrigation, waste disposal

Carbotech Magyarország Ltd. was founded in 2003. Cooperating with our sister companies (Tiarella Ltd. and Carbiotech Ltd.), we are active in the civil engineering industry since the beginning of the 90's. Our main activity is building insulations using Carbofol brand HDPE insulation sheets.
Tiarella Ltd. is an engineering company. It provides the engineering background for our construction activities.
Carbiotech Ltd. is the youngest company of the group. It is a company solemnly dedicated to Research & Development. Its main goal is to develop unique, environmental friendly technologies that will help our group to remain way ahead of our competition.
Our vision is to keep in mind the environmental concerns and therefore apply the most environmental friendly solutions in each of our assignments.
Our activity fields are:

- constructing technical protection systems of waste disposal sites
- designing and building waste landfill site basins' insulations
- design and construction of liquid manure reservoirs and handling systems
- designing and building wastewater treatment plants
- designing and building irrigation installations

We have already designed and constructed well over 1,000,000 m^2 Carbofol HDPE insulations.

Our group of companies is capable of handling the assignments from the design phase until handing over the finished construction.
Our customers are mainly waste handling companies, local governments, animal breeding plants, plant cultivating companies, etc.
We are closely working together with research institutes in various activities.

Landfill insulation, Tatabánya - Hungary, 78,500 m^2, 2015, STRABAG-MML Ltd., Swietelsky Mo. Ltd., Geohidtroterv Ltd.
Landfill insulation, Pusztazámor - Hungary, 185,000 m^2, 2011-2014, Euroaszfalt Ltd.
Swine slurry basins' insulation, Tulcea - Romania, 22,300 m^2, 2010, Promanure Ltd.
Wastewater treatment system with SBR technology, Zomba – Hungary, 200 m^3/d, 2013-2014, ALISCA-BAU Plc. and Szekszárd-Paksi Ltd.
Wastewater treatment system with poplar technology, Aparhant – Hungary, 65 m^3/d, 2000, Aparhant Önkormányzat

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Sector and subsector

About

Products, services, innovative solutions

CLARITY CONSULTING

Management consulting/ IT consulting

Clarity Consulting is a Hungarian-owned company established in 2001, specialized in management and IT consultancy. Having over 60 consultants on board, our company maintains a strong track record in the water industry.
The word “clarity” means simplicity, intelligibility, transparency and straightforwardness. We strive to have our work characterized by this word. We aim to provide essential, perspicuous and unambiguously defined products.
We believe that in order to provide our clients with the necessary effective business solutions, we need to possess extensive knowledge of the industry’s models and best practices, as well as the available IT solutions. We are able to support a certain solution while retaining our professional and consulting independence in any given situation. Our leading consultants have gained extensive professional and consulting expertise as well as specialized industrial experience, and – in cooperation with our clients – are duly open to quickly acquire and apply new knowledge.
We believe that client-consultant relationships are strengthened through the success of their joint efforts. In honouring our consultant work in 2015, Clarity Consulting has been awarded as the Gold Medalist of the Constantinus International Award.

Our company has a proven record of creating business value for our water industry-related customers. The services we offer to our customers are the following:

Business Consultancy

- Elaboration of enterprise strategy
- Increase of shareholder value (enhancement of effectiveness, cost reduction)
- IT strategy planning (increasing efficiency by utilization of IT)
- Process management / optimization / re-engineering
- Corporate transformation project services
- Change management, implementation of complex organization development tasks, enterprise change of culture

Implementation of Business solutions

- Workforce management processes implementation
- Non-revenue water reduction
- Procurement processes (centralized procurement, public procurement, e-procurement)
- Customer administration and billing processes and system introduction
- Material Management & Asset Management solutions
- Customer Relationship Management (CRM)
- Electronic document management and filing (paperless office) implementation

Azersu (Azerbaijan) 2016:

- Development of ICT strategy and high level action plan

Budapest Waterworks (Hungary) 2002-2005 and 2014-2016:

- Supporting the implementation of a document management system
- Participation in event management project
- Implementation and introduction of work performance standard system
- BPR of sewage water handling processes
- Surveying data quality of customer service systems

Budapest Sewage Works (Hungary) 2002:

- Quality assurance and BPR related to customer contact information system implementation

Budapest Wastewater Handling Works (Hungary) 2011:

- Project management and contribution of the feasibility study of the settlement & collection activities related to liquid-trash handling public services

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CONTROLSOFT LTD.

Sector and subsector

Water management / Industrial water
sewage water treatment/ water and sewage networks /
irrigation/ environmental monitoring

About

Controlsoft was established in 1991. Our founders have over 20 years of professional experience, thus allowing us to provide premium quality services to and solutions for our customers. Our dedicated R&D department delivers cutting edge solutions to optimize operational costs. We currently employ more than 70 highly qualified professionals.

As a system integrator and general electrical contracting company, we offer full-scale systems and solutions. Our innovative software solutions help water companies every day.
We provide premium quality services and solutions to municipal and industrial water customers in both urban and rural settings. We offer full range solutions for industrial process control, process instrumentation, and process control systems: design, manufacturing, installation, comissioning and maintenance.
Over the years we have accrued a considerable amount of international experience by carrying out work in Germany, China, Russia, Poland, Romania and Bulgaria.
We help our customers achieve safe, reliable, cost-effective, optimized, environment-friendly operation of their plants and buildings.

Products, services, innovative solutions

1. Supervisory software development and information systems development:
   - SCADA systems: webSCADA – Internet-based process control
   - Technical Information System: specific technical modules for water companies, such as GIS, object repository, workflow management, maintenance management, water quality management and energy management
2. Deliver complete electrical and control systems: from the design phase through to the implementation and maintenance phases

- Design, manufacturing and installation of 0.4 kV and 6 kV power distributors
- Industrial process control:
  a. Design, manufacturing and installation of PLC cabinets
  b. Programming of the PLCs
  c. Programming of SCADA systems
  d. Process instrumentation
- Design and manufacturing of special electronic/electrical components
- Commissioning
- Maintenance
- Outsourcing of the operation of the complete electrical and supervisory control system of the water utility companies

Our project benefits include significant savings in energy costs, chemical consumption costs, labour costs and maintenance costs. Our solutions also improve stability, safety and help to optimize the operation of the company.
Our solutions are certified to international standards: ISO 9001, ISO 14001, OHSAS 18001.

Our customers include :
Strabag, Colas, Veolia, Sade, Lego, Glencore, Coca-Cola, General Directorate of Water Management of Hungary, Daimler AG (Mercedes-Benz), Hungarian Oil Company (MOL), Budapest Wastewater Company, Foxconn China, Water and Wastewater Companies, Water Directorates
Projects:

1. Integrated Supervisory Control and Data Acqusition System of 500 towns and villages, controlling 2,500 substations.
   Hungary. Year: 2013-15
   The largest integrated water and wastewater control system in Hungary, provides clean and healthy water for a milllion people each day.
2. North-Budapest Wasterwater Treatment Plant, Hungary. 400,000 m^3/day. Year: 2014.
3. Yekaterinburg Wastewater Treatment Plant, Russia. 350,00 m^3/day. Year: 2010-2013.

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DATAQUA Electronics Ltd.

Sector and subsector

Water management/Measurements
- Water-supply
- Hydrography (Hydrographic monitoring network)
- Flood and inland protection

About

Our company is now 27 years old. We have been developing our instruments throughout this time in order to meet rising and changing demands. Our instruments include pressure and water level transmitters and microprocessor-controlled, battery-operated field equipment which record water level, pressure, conductivity and temperature whilst working in harsh field circumstances without permanent power supply.
The instruments we use are manufactured by us. We put a special emphasis on the fact that we invest a large part of our income into research, development and forming a creative, enthusiastic group of professionals. We do business with a lot of small enterprises. We develop and calibrate our instruments on our own premises.
In the past few years, our instruments have proved successful in their functions and have been developed into a computer-based data collecting, storing and telemetric (GPRS) system which meets the requirements of the present day.

Products, services, innovative solutions

Our main profile is to develop proprietary products:
- water level and pressure transmitters (analogue and digital - SMART-design)
- water level, temperature and conductivity recorders (water monitoring system with GPRS communication via Internet)
- Handheld water level meters

Our customers come from the following areas:
- hydrological institutes (Water Management Directorates)
- water-works
- companies in the automation and environment protection business
- mines
- companies dealing with the protection of sensitive water supplies (instrument installation in monitoring wells)

The pressure transmitters can be used for telemetric, automation and process control where pressure or fluid level shall be measured or these are used to control a process (such as pump control for industrial waterworks). The water level recorders are used to record the level or pressure of fluids in tanks, the level, temperature and conductivity of karstic water, ground water, rivers, streams, lakes and ponds primarily as fixed instruments in drilled wells.
So far, our reliable field instruments are capable of independent operation and have performed well. We possess a system with computer aided data processing and archiving capabilities which meets state-of-the-art requirements.

- Central Directorate for Water and Environment
  Department of Hydrology
  "Automatization of groundwater monitoring stations"
  - Shipping and installation of 345 pcs digital water level recorder and 352 pcs GPRS communication unit. (EUR 450,000)
    Budapest, 2010
- Geological and Geophysical Institute of Hungary
  "Development of water monitoring system"
  - Shipping and installation of 138 pcs digital water level recorder and 84 pcs GPRS communication unit. (EUR 233,000)
    Budapest, 2011
- General Directorate of Water Management
  "Automatization of surface water monitoring stations"
  - Shipping and installation of digital water level recorders and GPRS communication units in case of 226 surface water monitoring
    stations. (EUR 538,000)
    Budapest, 2013

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DUNA-KÚT WATER UTILITY CONSTRUCTION AND SERVICE LTD.

Sector and subsector

Water treatment facilities/Implementation

About

DUNA-KÚT Ltd. has been operating for 26 years. In September 2006, Budapest Waterworks purchased ownership shares amounting to 51% in our company; therefore, in August 2007, the Supervisory Board decided to change the name of our Company.
Scope of activities of the company:
General and specific deep-level construction works, including:

- construction, reconstruction and cleaning of shaft wells, horizontal wells and drilled wells
- cleaning, external and internal repair of gravity drinking water conduits and sewers of great diameter
- construction of drinking water and sewage pumping plants
- internal renewal, coating, and insulation against rainwater of drinking water reservoirs
- architectural, electrical and engineering reconstruction of engine houses

DUNA-KÚT Ltd. performs deep-level construction, as well as engineering and technological assembly works with its own employees. The company carries out building construction, electrical and control technical tasks by involving partners and sub-contractors as a main contractor.
In order to continuously provide high quality work, in 2005 a Quality Management System according ISO 9001:2001 standard and in 2012 a Quality Management System according to ISO 9001:2009, and ISO 14001:2005 standards was implemented.

Products, services, innovative solutions

Our core activities are:

- Special civil engineering
- The maintenance, cleaning and reconstruction of 700 wells and the construction of new wells
- Renovation of drinking water ponds
- Construction of flood protection structures
- Maintenance of gravitation pipes

Our customers are water supply and sewage service companies, local councils and deep-level construction companies.
DUNA-KÚT Ltd., a subsidiary of Budapest Waterworks gained extremely wide-ranging experiences in setting up horizontal filtering wells and willingly offers their know-how for utilisation in the framework of any type of partner relationship.

References

Reconstruction of shaft wells in Szentendrei-island from 1996.
(about 810,000-970,000 EUR/year)
Renewal of horizontal wells in Szentendrei-island, Csepel-island and Balpart from 1994. (about 330,000 EUR/year)
Renewal of horizontal wells for drinking water production, by drilling new shafts in Szentendrei-island and Csepel-island from 2011.
(about 330,000-490,000 EUR/year)
Cleaning and repair of gravity conduits of great diameter Szentendrei-island, Csepel-island, Margaret island and Balpart from 1994.
(about 490,000-650,000 EUR/year)
Internal water-space reconstruction of pool water reservoir in operational area of Budapest Waterworks from 2007.
(about 330,000 EUR/year)

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EBEPLAN ENVIRONMENT AND ENERGY LTD

Water management/Manufacturing and installation
sewage water, drinking water, storm water applications

For nearly thirty years, EBEPLAN Kft. has played a significant role in the supply, installation and servicing of mechanical products used in projects of environmental and energy management projects in Austria and Hungary. Our company is also active in the field of mechanical engineering and installation, as well as the erection of machinery for water applications.

aeration, water flow regulation, screening, scrapers, filtration

We have excellent references and have business contacts with virtually all major public waterworks and sewage treatment plants in Hungary. We do a lot of work abroad as well, so we have satisfied customers in Austria, Germany, Slovenia, Romania, Bulgaria and Croatia. In co-operation with various general contractors, we participate in major projects as subcontractors, e.g.:

Installation of WWTP Port Constanța (RO)
Installation of WWTP Budapest-North (HU)
Installation of WWTP Ada (SRB)
Installation of WWTP Focșani (RO)
Installation of WWTP Sevlievo (BG)

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ELGOSCAR-2000 ENVIRONMENTAL TECHNOLOGY AND WATER MANAGEMENT LTD.

Sector and subsector

Environmetnal engineering/Research and development
Contaminated site remediation (groundwater,
soil and sludge cleaning); analytical laboratory.

About

Our company was established in 1991 by the experts of Eötvös Loránd Geophysical Institute of Hungary. The original team members still take active roles in different projects.
Among our experts are geologists, hydrogeologists, geophysicists, geographers, engineers (chemical, bio, environmental, electrical), many of them with several decades of experience.
Our engineering and expert team have a high level experience in contaminated groundwater (GW) and soil cleaning. The team is capable of planning remediation systems and able to give support for environmental projects. We are equipped to carry out field works from soil excavation through well drilling to geophysical site investigation. We have our accredited laboratory for GW, surface water and deposits, wastewater, soil, air pollution, geological media, waste chemical analyses. With these three abilities, we are uniquely able to manage independently any kind of environmental projects.

Products, services, innovative solutions

Site remediation
- Remediation of contaminated soil and GW using classical enzymatic, biocatalytic methods;
- Design, authorization, installation and operation of remediation systems and monitoring wells.

Laboratory
- Accredited sampling, physical and chemical analyses;
- Jar testing.

Expert and engineering activity
- Water management authorization;
- Preparation of Feasibility Studies, Environmental Assessments, authorization of Integrated Pollution Prevention and Control;
- Contamination detection, Remediation and Technical Intervention Plans.

Geological survey
- Geophysical methods (e.g. GCPT);
- Shallow boring, soil sampling with disturbed/undisturbed structure.

Research & development

- ENZIM-MIX product: eco-friendly enhanced remediation of oil contamination by enzymatic process;
- GCPT (Geophysical Cone Penetration Test) sounding: connecting CPT and logging measurements into one probe. The result of the research is able to measure RCPT, FCPT, GAM, DEN, NPHI, RES, IP;
- FFD (Fuel Fluorescence Detection) sounding: rapid, in-situ, on-line UV-fluorescence detection of oil contaminants (TPH, PAH) in subsurface soil and GW. Connecting it with GCPT a unique complex site investigation equipment is created;
- ELGODISP: process remote control system.

- Localization of hydrocarbon contamination (700,000 m^2, 2013-2015, HUN).
- Reverse Osmosis treatment on a metallurgical factory waste site (GW: 80,944 m^3, 404,000 €, 2013-2015, HUN).
- Remediation of oil contamination on a military tank park (GW: 186,000 m^3, soil: 16,250 m^3, 1,052.715 €, 2012-2015, HUN).
- Environmental documentation for remediation in 21 counties for OMV PETROM (690,000 €, 2012-2015, ROU).
- Remediation of oil contamination on a former military airport (GW: 186,000 m^3, soil: 470,000 m^3, 1,723,200 €, 2011-2015, HUN).
- Hydrocarbon contamination remediation (GW: 2,000 m^3, soil: 3,200 m^3, 105,376 €, 2007-2008, ESP).
- Ex situ on site bioremediation of oil contamination (GW: 4,733,625 m^3, soil: 43,000 m^3, 3,115,705 €, 2006-2009, HUN).

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EUROFLOW Plc.

Sector and subsector

Water treatment technology /Pipe systems
/ drinking water / sewage water / industrial water / process water

About

EUROFLOW plc is the market-leader background supplier of the Hungarian drinking water- and sewage companies and related building / execution cos. as well, shipping them pipes, fittings and valves. Its history started still in 1995 with the same profile and almost the same product range. This range continuously depends on the current market demands, i.e. building of new networks and/or repair of defects (leakages) on old pipes. In the recent past and nowadays this pipe repair- and maintenance job has high importance because of the age (sometimes more than 100 years, but in average 40-50 years), material (mainly asbestos cement), poor technical conditions and extra-high level of water-loss on the Hungarian water- and sewage pipeline networks. EUROFLOW plc is excellently situated very close to Budapest, nearby the M7 motorway, furthermore having optimal human-, warehouse- and IT infrastructure. We serve our customers in the EUROFLOW warehouse, during- or after the normal opening hours, or in some extreme situations urgent delivery of related products on site and just-in-time is also available.
Focusing on the optimal and flexible solution for our customers is our company philosophy.

Products, services, innovative solutions

EUROFLOW Plc offers pipeline- and fitting materials made of ductile cast iron, produced by vonRoll (CH), KEULAHÜTTE (D), or made of HDPE polyethylene by PLASSON (IL). For the closing or other type of valves AVK (DK) is the main supplier. For pipe connection- and repair jobs KRAUSZ (IL) can offer a wide range of their innovative products. Those are flagships of EUROFLOW plc, serving all the Hungarian drinking water- and sewage companies and related building / execution cos. as well. All of them are market-leader, professional and premium-category manufacturers, using innovative and environment-friendly design, production and raw materials.
Highlighting on KRAUSZ HYMAX and REPAMAX unique and patent-pending pipe repair- and connection fittings, they have “pressure-assisted gasket®”, which makes significantly cheaper, faster and more durable the pipe-repair jobs even in hard working conditions and on the old, poor and damaged pipe-surfaces as well.

References

In its history, EUROFLOW Plc has had one of the biggest challenges in 2015, while executing the Békés County Water Quality Improvement project.

- Customer: the project-winner building co. (Mészáros & Mészáros)
- Delivered products: ductile cast iron valves and fittings for 65 villages nearby. (our deliveries’ value is about 4 billion HUF)

The biggest professional awards won by EUROFLOW plc:

- 1st prize in the professional competition of the Hungarian Water Utility Association (MaVíz) for the most innovative product of 2010 in the water industry (KRAUSZ Pipe Repair-Coupling)
- 1st prize in the professional competition of MaVíz for the most innovative product of the year 2014 in the water industry (PLASSON Adjustable Electro-fusion Elbow)

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FŐMTERV CIVIL ENGINEERING DESIGNER LTD.

Sector and subsector

Water management /Public utility services
Design and project management; Drainage; Structure; Engineering; Electric supply

About

FŐMTERV was established in 1950 by the Municipality of Budapest in order to carry out all the engineering design services associated with the development of the capital. In the following half century, there have been many improvements to the city's transportation and all utility systems. The majority of these were designed by FŐMTERV. The engineering services included roads, tramways, bridges, water supply, sewerage, gas and electricity distribution systems. FŐMTERV is able to carry out the full range of engineering services associated with infrastructure and civil engineering. These services include complex engineering services in every field of infrastructural, civil engineering and public area designs. The steady, well prepared staff of approximately 120 engineers and more than 80 colleagues who provide technical support carry out the complex process of design, such as pre-feasibility studies, feasibility studies (economic and technical), permit and detailed project design and background studies for several purposes. In the past ten years, the company increased its incomes – with no change in staffing figures – constantly. In past years, our revenues totalled approximately 19 million € income.

Products, services, innovative solutions

We provide the following services: conception of plans for constructions, conducting studies, feasibility and impact reports, plans for authorization, and complex plans of investments including preparatory works and authorization. Major branches include road, traffic engineering, railway, structure design, water, sewerage, wastewater treatment planning, gas, heat, electric power, soil engineering, building organization and management. The company has extensive experience in the practical activity of PHARE, SAPARD, ISPA, KEOP projects, in the field of feasibility studies, procedures of service tenders, elaboration and supervision for FIDIC type contracts and project management. The specific scope of our company includes (permit and detailed) designing of public utilities (wastewater treatment, drainage, water and gas management, design of electric networks and energetic designing), modelling and preparing feasibility studies and designs of different kinds of engineering fields.

References

Technical assistance and design services for Budapest full-scale canalization program
In Budapest the sewer system previously served about 90% of the population. The planed Budapest central plant on Csepel Island (South-Budapest) and connected canalization development solved the missing canalization and treatment issues. The program included a 400-600 km conductive drain, 40-60 other sewer pipes and 8-10 sewage pumping stations from the feasibility studies (including Environmental Impact Assessment, Cost-Benefit Analysis, Alternatives) in plans for approval and tender plans to the Constructor. The investment cost was approximately 280,000,000 € and was co-financed by the EU, the central budget of Hungary and the Municipality of Budapest.

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GDI ESRI HUNGARY LTD.

Sector and subsector

Engineering/IT services
IT, GIS (Geography Information System), Hydrological analysis; Water planning support, big spatial data (Lidar, ortophoto, sensor data) collection, and feature extraction.

About

GDi Esri Hungary Ltd., founded in 1989, is a Croatian-Hungarian joint venture. The main goal and basic assignment of the company is to promote the software products and business culture of the Environmental Systems Research Institute – or Esri -, the leading GIS vendor in the world. Our company is the only official distributor of Esri in Hungary, and is part of the GDi Group.
GDi Esri Hungary, Ltd. offers complete services related to GIS. The core competency of the company is to develop large-scale GIS based systems, and to implement integration with connected of the third party systems. In addition, the company deals with other activites related to GIS and Esri, such as software distribution, support, training (general and special too), system analysis, system development, database construction and author of maps and base datas. Our purpose is to build world-class GIS based software systems and system models in Hungary, making the work of our users easier, more efficient and more organized. The applications developed to fit user requirements vary from map based decision support systems to various information systems and to complex query and report generating systems, spanning spanning across infocommunication technologies.

Products, services, innovative solutions

GDi Esri Hungary Ltd. is the biggest GIS provider in the Hungarian water industry.
We deal with the full range of IT services like BPR, system planning, implementation, development based on ArcGIS platform, training, support.
We are very proud of our GIS solution for flood hazard and risk maps, a complex information system supported by a geo-database model and parameterized algorithms to calculate threats and risks.
We implemented and continuously support the ArcGIS based Enterprise Geoinformation System (GeoInfo) of the Hungarian General Directorate of Water Management and the twelve Regional Directorates of Water Management. The water geo-data is operated according to this system.

References

We are the subsidiary of GDi in Hungary from 2010 onwards and as such a sole Hungarian sub-distributor for marketing, sales, training, implementation and support of ESRI ArcGIS software products in Hungary.
Our main Hungarian water sector projects for the Hungarian General Directorate of Water Management and the twelve Regional Directorates of Water Management:

- In 2015-2016: Hungarian Water Management Enterprise Geoinformation System implementation based on the ArcGIS platform. The number of concurrent desktop users is more than 500 and we provided unlimited access to water web map services. Project value: net EUR 1.2 million.
- In 2015-2016: more than 60 thematic water management atlases (unlimited accessed complex web maps, web apps and map services optimized for mobile devices). Project value: net EUR 800K.
- In 2015: collaboration within the River Basin Mapping Management Plan. Project value: net EUR 160K.
- In 2008-2015: Implementation of the GIS solution for flood hazard and risk mapping. Project value: net EUR 2.7 million.

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GE POWER, WATER & PROCESS TECHNOLOGIES

GE Power
Water & Process Technologies

Wastewater, drinking water, produced water, monitoring services, asset performance management, etc.

With operations in 130 countries and employing over 7500 people worldwide, GE's Water & Process Technologies leverages our innovation, expertise and global capabilities to solve our customers' toughest water and process challenges wherever they occur.

As a strategic business partner, GE offers a comprehensive set of chemical and equipment solutions, as well as predictive analytics to enhance water, wastewater and process productivity. We strive to enable customers to meet increasing water demands and population needs, overcome scarcity challenges, enhance environmental stewardship and comply with regulatory requirements.
GE's water and process solutions provide the operational efficiency, growth and peace of mind our customers need to thrive.

Visit www.gewater.com to learn more.

We bring together experienced professionals and advanced technologies to solve the world's most complex challenges related to water scarcity, quality, productivity, the environment and energy. Municipalities and industries alike leverage our water treatment systems and technology to reduce costs, meet environmental regulations and prepare for changing demands.

www.gewater.com

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Sector and subsector

About

Products, services, innovative solutions

References

GEOMETRIA LTD.

Engineering / IT services

Geometria provides information technology (IT) services to utilities and telcos. Such services encompass feasibility studies and comprehensive, detailed execution planning of integrated IT systems and independent application systems, implementation of applications and operation support as well as the design, implementation and change management of digital databases and application support. Our IT solutions typically back the business processes at public utility companies in relation to their operation and maintenance procedures and are linked to the systems that support the enterprise resource planning and customer care service activities of the clients.

MIRTUSZ - WORKFORCE MANAGEMENT & field work automation SYSTEM
We aim to improve efficiency of network-based operations, work management, troubleshooting and eliminating operating failures.
Solution: MIRTUSZ is a modular system that can be flexibly aligned with the needs of public utilities. MIRTUSZ's modules can be organically integrated into the company's IT environment, such as enterprise resource planning, network management, car tracking and operations management systems.
RBM-FUZZY RISK BASED MAINTENANCE PLANNING WITH FUZZY LOGIC FOR UTILITIES
Goal: fundamental environmental changes modified the relationship of public utilities to the network assets: economically effective management and operation of network became fundamental.
Solution: to achieve goals an asset management system (e.g.: ISO 55000:2014 standard) has to be operated that ensures that only really sufficient expenditures are defined and in which the rate of effectiveness can be demonstrated.
Distribution Management System / Outage Management System
Goal: decision-making for optimal network operation needs fresh, precise, detailed information of the whole system
Solution: our DMS/OMS concept is an integrated, central decision-making supporting system based on system registries, event statistics and linked to plant operation, planned maintenance, account assistance modules, workflow management systems, company databases and management information systems.

Water & sewage
Budapest Waterworks (Served population: 2M)

- Workforce Management & Field Work Automation System (managed field workers: 1000, incl. subcontractors)
- Network Registration System (network: 5500km)

BRABANT WATER

- House connection conversion

Electricity

EDF DÉMÁSZ (no. of customers: 775k)
- Workforce Management & Field Work Automation System (managed field workers: 220)
- Network Registration System (network: 33 000 km)
- Outage Management System
- Geodetic GIS and E-Public Utility Publication

ELMŰ-ÉMÁSZ (no. of customers: 2,248k)
- Workforce Management & Field Work Automation System (managed field workers: 6,000)
- Network Registration System (network: 46 400 km)
- Map Portal

MAVIR
- Network Information System (network: 5 000km)

STEDIN
- Processing the low voltage electric network (network: 11,198km)

District heating

FŐTÁV (no. of customers: 250k)
- Workforce Management & Field Work Automation System (Managed field workers: 130)
- Network Registration System (network: 1,500km)

Gas

STEDIN (no. of customers: 157k)
- Data quality improvement and clarifying migration
- Database analysis, quality checking and change management

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GRABOPLAN LTD.

Sector and subsector

Flood protection

About

Our predecessor Graboplan Tent Manufacturing and Technical Confectioning has dealt with tent manufacturing and tent canvases since 1969. This translates to more than 40 years of pioneering work, as, in those times, tent and tent-cloth manufacturing was a new business sector in Western Europe. However, our company also deals with the production of pneumatic flood tubes and other flood protection mechanisms.

The manufacturing base of the company is located in Győr, Hungary, located roughly at the halfway point on the Vienna-Budapest highway.
Main product groups are the following:

- Air domes for temporary cover of tennis courts, swimming pools and football fields
- Tents with aluminium frame for outdoor, cultural and sporting events, as well as for storage and other industrial uses
- Tensile membrane structures for permanent and temporary covering of space with various sizes, stadiums
- Liquid storage tanks, pool liners, gas tanks, pneumatic flood tubes
- ... and everything else that can be manufactured from tarpaulin.

Besides the manufacturing of products from industrial textile, Graboplan Ltd. offers site engineering and installation services.
Our goal is to create a wide range of products with high quality and durability.

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HAWLE FITTING MANUFACTURER AND DISTRIBUTOR LTD.

Pipe systems / Fitting manufacturing and development
potable water, sewage, rainwater utilization, industrial waters

The HAWLE consortium is a determinant fitting supplier in water industry since 1948, with significant European production capacity. Hawle Ltd., the Hungarian subsidiary is based in Szentendre. We are manufacturing premium category fittings with at least 50 years of lifetime for water utilities of potable water supply and sewage discharge.
Our company determines its market behavior as a responsible supplier in the water industry, thus we endeavor to know in detail all national and European Union requirements and to comply with them.
During planning and manufacturing of our products, cost effectiveness, quality and reliability prevail as important consideration.
Our most important index number is the opinion and requirements of our customers, which play a significant role during the development and manufacturing of our fittings, in order to fulfill also the most unique customer requirements.

HAWLE produces approximately 14,000 products such as fittings for potable water supply, air intake and de-aeration or shut-off fittings for every need, hydrants, pipe joints and repairing products for maintenance of ageing networks as well as other special fittings for unique customer requirements and problems.
Our innovative new solutions:

- water treatment technologies, which consist of two units, removal of solid contamination with our manufactured Optifil filter in the range of 1 µm to 150 µm, and producing potable water, which is intended for human consumption, with the own manufactured high power but cost efficient UV sterilizer.
- rainwater collection and utilization within a complex solution which is adaptable to the changing climatic conditions and for the generation of green cities and smart cities.

The HAWLE consortium with 7 European, one Turkish and one Russian fitting plant, and also with several connected subsidiaries, such as our own foundries and units which are manufacturing special water treatment and storage products, firms providing service and educational services. We are thus present in more than 70 countries in the world. We are unique amongst fitting manufacturers as we provide 10-year quality assurance for potable water fittings and a 5-year guarantee for built-in products on full scale.

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HIDROFILT WATER TREATMENT LTD.

Sector and subsector

Water treatment technologies/Equipment manufacturer
Drinking water, desalinated water, purified water, ultrapure water, mobile water treatment, industrial wastewater recycling

About

HIDROFILT Water Treatment Ltd. is one of the largest water treatment equipment manufacturing companies in Central and Eastern Europe. We have been on the market for 26 years.
Hidrofilt is a specialist in mobile water treatment systems. Our catalogue includes more than 40 types, but we can design and manufacture equipment according to individual needs.
Services: pilot experiments, customised 3D design, water analysis, water treatment system manufacturing, installation, maintenance, service, chemicals and parts supply, monitoring system
Facilities: accredited laboratory, water technology research and development center, 3500 m2 craned workshops, inox workshop, 22 service cars, more than 60 engineers, more than 140 employees, 3 sites with workshops, 3 offices in 3 countries.
Certificates: Bisnode AAA Highest creditworthiness category, ISO 9001, ISO 14001, OHSAS, PED
References in over 30 countries.

Products, services, innovative solutions

- Processing of drinking water or process water from surface water, ground water, seawater, and brackish water
- Water supply and drinking water treatment for towns and villages
- Containerized mobile water treatment systems with power supply
- 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-dioxid system
- “Purified” and “High purified water” for pharmaceutical industry, “Ultrapure water” for electronic industry
- Industrial wastewater treatment, ZLD technologies
- Irrigation water treatment for agriculture
- Process water and wastewater treatment for oil, gas, light and chemical industry
- Technologies: MMF, MF, UF, NF, RO, SWRO, EDI, MC, FO, DAF

References

References: Sri Lanka, United Arab Emirates, Laos, Russia, Kazakhstan, Mexico, Serbia, USA
Customers: GE, Linde Gas, Givaudan, Lukoil, Flex, Dreher, Coca-cola, Nestle, Henkel, SabMiller, Pepsico, PhilipMorris, Sanofi Aventis, BD

MVM Paks Nuclear power plant technological water 5,000 m^3/d 2015
Drinking water treatment system for more than 60 towns and villages in the last 3 years
More than 200 pcs of containerised water treatment systems for EU, Asia, Africa, Middle East
Sri Lanka Colombo drinking water treatment 150,000 m^3/d 2016
One of the biggest ultrafiltration systems for drinking water treatment in Central Europe in Miskolc 30 000 m3/d
Dubai Solar power plant water treatment 400 m^3/d 2014
MOL Group Hungary and Slovakia technological water for Oil Industry 20,000 m^3/d 2011-2013
Pharmaceutical Industry PW and HPW > 5,000 m^3/d 2013-2016

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Sector and subsector

About

Products, services, innovative solutions

HIDROKOMPLEX CONSULTING ENGINEERING LIMITED LIABILITY COMPANY

Water treatment technology / Wastewater treatment terchnology
Communal and industrial water and wastewater treatment

Water supply and sewerage systems, networks
HIDROKOMPLEX Ltd. is one of the most important and most sought-after consulting engineering companies in Hungary, working mainly in 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.
HIDROKOMPLEX Ltd. has many highly qualified and experienced civil, mechanical and electrical engineers working in the fields of drinking and industrial water supply and sewerage, water and wastewater treatment and environment protection.

Quality guarantee:
ISO 9001:2008 Quality Management System
ISO 14001:2005 Environmental Management System

Staff: 27 persons from that 24 engineers
15 hydraulic, 3 civil, 2 mechanical, 1 environmental, 3 electrical and process control engineers
Language capacity: Hungarian, English, French, German, Italian, Romanian

The main activity field is in Hungary, but the company and the staff itself have references and practise in 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, runoff drainage
- process, hydraulic design (with owns 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.

Kecskemét water treatment plant I. and II. – Hungary; 2014
1,000 + 1,500 m^3/h - Development of water treatment: Fe, Mn, As removal and NH_4 biological removal
Licensing plans, detail design
Duna Aszfalt

WWTP of Ain Defla – Algeria; 2014-2015
8,000 m^3/d; 50,000 PE
Survey, analysis, feasibility study, tender documents
Ramboll Sverige

Keszthely WWTP Hungary
18,000 m^3/d; 120,890 PE - anaerobic sludge digestion, 2x 1,400 m^3 digester
Feasibility study, permit designs, tender documents: 2009-2010; detail design: 2013-2015
DRV

PWTP Budapest Csepel Island; in Lake-Balaton region
WWTP Budapest-North; -South; -Central; Szeged; Balatonfüred; MOL

Construction Industry Awards for the design of
Csepel PWTP of Budapest
South Budapest WWTP
Budapest Central WWTP (2)

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Sector and subsector

About

Products, services, innovative solutions

References

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INTEREX-WAGA LTD.

Drinking water/Equipment manufacturing

Interex-WAGA has been active in the water utilities sector for 23 years.
Our mission is to act as technical solution provider, supporting our customers in their efforts to provide secure and sustainable drinking water supplies to consumers. Our sales range includes pipe couplings, valves, hydrants, manhole covers and our own manufactured VIPAK® security seals for water meters.
Our motto: Preserving Water – Our Treasure

Our patented VIPAK® self-locking plastic security seals were developed in cooperation with water utility engineers to provide security sealing for water meters. It has been used for two decades and well known in the water utilities profession as a product suitable for the prevention of illegal water consumption. Being used by 90% of water utilities in Hungary and sold in 11 countries, VIPAK® security seals offer protection against tampering. The seal contains two halves with protecting flanges which will hide connecting planes after installation. Its weakened locking device will clearly identify any attempt of tampering. The perforation around the locking device will increase fragility under tampering efforts. Subsequent gluing of the material is not possible. It is easy to prove that the seal has been tampered with or disassembled, thus helping water utilities increase their revenue and fight against unauthorized use of valuable water resources.

8.4 million security seal rings sold in Hungary and 1.4 million rings sold in Spain, Croatia, Slovenia, Romania, Denmark, Greece, and Italy in the past 5 years.

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Sector and subsector

About

Products, services, innovative solutions

INWATECH LTD.

INWATECH
Környezetvédelmi Kft.

Water management /Public utilitity
Wastewater; Biogas, Water, Operation

Inwatech Ltd. was established in January 2001 by environmental technology professionals and people committed to the field. Our creative and dynamic management team have long thought of wastewater engineering as a life's calling. The management have outstanding professional experience and knowledge in the field of industrial wastewater treatment and in the field of sewage treatment in general, both as engineers and as contractors.

This wealth of experience and knowledge forms the basis and background of Inwatech Ltd's activities. Over the past decade, Inwatech engineers have played key roles in the planning and implementation of over 30 wastewater treatment facilities in Hungary and Romania. Our work has been supported throughout, to a substantial extent, by our long-term European partners who are leaders in their respective segments of the market. Due to our exclusive partnership and agency agreements, we have the ability to employ global leading technologies and to draw on a wellspring of experience and knowledge in our Hungarian projects.
Inwatech Ltd. has become active in several countries.

We assist our clients during every phase of the project implementation with:

- Outstanding professional experience at an international level,
- Complex guarantees,
- Turn-key general contracting with full liabilities,
- State-of-the-art technology,
- Option for long-term operation and/or operation supervision.

LOCAL PUBLIC UTILITY COMPANIES, MUNICIPALITIES
Inwatech has significant experience in exclusively communal or mixed wastewater treatment, rainwater treatment. We consider waterworks as one of our most important clients, to which we not only offer construction services, but also long-term professional partnerships. We offer our general contractor-engineering skills especially in two fields:

- Design and construction of new wastewater treatment plants (Contiseq, Inwaferm)
- Reconstruction and expansion of existing wastewater treatment plants

INDUSTRIAL CLIENTS
Our experiences, and those acquired by our international technological partners, are particularly strong in the following segments:

- Food industry, particularly the brewing, soft drink, fruit and vegetable processing, dairy, meat and poultry, pet food, alcohol and starch, sugar.
- Industries related to oil and emulsions, for instance: petrochemical industry, machinery, parts manufacturing, Paper Industry, Textile Industry, Pharmaceutical Industry, Chemical Industry.

References

2006-	ZALAKAROS Municipality Capacity: 1,600 m^3/d, (14.000 PE)
2006-2008.	HEINEKEN SOPRON BREWERY Capacity: 2700 m^3/d (110.000 PE) Biogas production: 3,840 m3/d
2008-2009.	RAUCH Budapest Capacity: 1,000 m^3/d (40,000 PE) Capacity: 1,000 m^3/d (40,000 PE) Biogas production: 1,130 Nm^3/d
2011-2012.	TÖRLEY Pezsgőpincészet Ltd. Budapest Capacity: 350 (max. 600) m3/d (~20,833PE)
2006-	HUNGRANA Ltd. Szabadegyháza Capacity: 7,800 m^3/d, (336,000 PE) Biogas production: 12,000 m^3/d
2011-2013.	Békéscsaba, municipal WWTP Capacity: 20,000 m^3/d (~133,000 PE) Biogas production: 2,600 Nm^3/d Electric capacity of CHP: 250kW
2012-2013.	Nestlé Hungária Ltd. Capacity: 625 m^3/d (~27,000 PE)
2012-2014.	Mosonmagyaróvár, municipal WWTP Capacity: 8,600 m^3/d (~98,333 PE) Biogas production: 2,050 Nm^3/d Electric capacity of CHP: 250kW
2014-2015	Kazincbarcika, municipal WWTP Capacity: 6,500 m^3/d (~53,800 PE) Biogas production: 1.040 Nm^3/d Electric capacity of CHP: 123kW
2015/2016-in progress	MOL MPK (TVK) Capacity: 219,200 PE (20,800 m^3/d).
2016-in progress	SAMSUNG Wastewater capacity: 1,850 m^3/d Rainwater capacity: 2,400 l/s

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KARSAI PÉCS LTD.

Sector and subsector

Water management/Sewage water systems

About

Karsai Pécs was founded in 2007. Our company's profile includes plastic injection moulding and blow moulding, tampon printing, assembly.
We have 41 employees.

Products, services, innovative solutions

Floatseal is the name of our water related product. It is a plastic plate that is used to seal the sewage water from the enviroment. This product is made with blow moulding technology. A link product that binds two floatseal plates together is made with plastic injection technology. Our potential customers are owners of sewage plants.

References

Our most important project in the sewage water segment is the making of a floatseal system to a sewage water plant at Budapest, FCSM (Fővárosi Csatorna Művek Zrt).
The handover date was 2015.
Location: Budapest

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KEVIÉP CONSTRUCTION AND TRADING LTD.

KEVIÉP
CONSTRUCTION AND TRADING LTD.
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Water management/Public utility
Potable and industrial water-supply; communal and industrial wastewater treatment; environment protection

During its 50 years of existence, KEVIÉP-Hungary Ltd. has constructed numerous industrial, public, commercial, sports and multifunctional communal units, implemented infrastructure investments and environment protection projects in the form of prime and execution contracts. Experience gained over the activities of nearly half a century has formed our company into a successful and acknowledged constructor of aesthetically and technically demanding facilities.
Our functional principle and philosophy is to act as a profit and quality oriented organization, which, in line with its professional past, ensures the development of the company, promoting its competitiveness in the construction market and contributing to the employees' success, which is the pledge of our future as well.
Quality work is a value for us, the basis of which is acquired professional knowledge, the ability to establish contacts, good communication skills, and work performed alone or in a team as well.
It is our conviction that we can be successful only with our partners, and for this reason we desire to provide flexible and maximum performance to meet all the requirements of our customers.

For the past 50 years, we have executed complex water supply systems in over 80 settlements of Hungary. Within the frames of communal and industrial sewerage piping and treatment programs we have implemented several extension and refurbishment projects with adjacent wastewater treatment plants.
It is our objective to develop and apply technologies which prevent environment pollution, and minimize waste.
To solve problems of wastewater management and treatment, together with the experts of the Technical Department of Debrecen University, our technicians developed individual wastewater treatment units. Each unit is a biological system and meets all the requirements of up-to-date treatment technologies. The majority of these treatment plants are furnished with biological systems, in accordance with the requirements of modern treatment technology.

During our operation we have solved the supply of almost 100 settlements with healthy potable water mains.
Within complex water-supply systems we build:

- water-intake and treatment plants
- transmission lines, communal and industrial distribution lines
- elevated and underground tanks

Beyond communal water-supply we realized a number of industrial water-supply projects.

Wastewater Treatment Plant – Valea Lui Mihai, Romania – 2016
Waste Treatment Plant – Eger, Hejőpapi, Hungary – 2016
Waste Treatment Plant – Jásztelek, Hungary – 2015
Waste Treatment Plant – Kézdivásárhely Romania – 2015
Wastewater Treatment Plant – Orosháza, Hungary – 2015
Wastewater Collection And Treatment Project– Biharnagybajom, Sárrétudvari, Hungary – 2015
Wastewater Collection And Treatment Project– Nyírbátor, Nyírgyulaj, Nyírvasvári, Hungary – 2015
Wastewater Collection And Treatment Project – Mérk, Vállaj, Hungary – 2015
Thermal Bath And Spa – Makó, Hungary – 2011
Wastewater Treatment Plant – Debrecen, Hungary – 2010
Competition Swimming Pool – Debrecen, Hungary – 2006

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KROFTA Water's Technology Ltd.

Sector and subsector

Water treatment technologies / Wastewater treatment technology
Drinking water; Biological filtration; Wastewater management ; Biological filtration; Industrial wastewater; Air purification with biofilter

About

KWT designs and deploys water and wastewater treatment systems for industrial and municipal applications. With more than 4,000 installations in 77 countries, KROFTA is a world leader in potable water treatment, biological treatment, industrial wastewater treatment and recycling. Water Solutions are based on proven process designs incorporating exclusive, patented equipment and technology.
Today, KWT develops and deploys floatation, clarification and filtration technologies in the paper, food, textile, rubber, chemical and process water recycling sectors. Additionally, KWT experienced process engineering teams have effected the design, fabrication and installation of municipal Wastewater Treatments with biological filtration (nitrification/denitrification) and Drinking Water Plants with also biological filtration (biological ammonium removal without chemical).

Products, services, innovative solutions

Products & technologies
Biological filtration for drinking water treatment (NH4, Fe, Mn, As-removal without chemical)
Biological filtration for municipal wastewater treatment (nitrification&denitrification)
Biological filtration for industrial wastewater treatment (low degradable/toxic wastewater)
Dissolved Air Flotation for water and wastewater treatment
Biological filtration for air treatment (biofilters for odor removal)

References

1997	Hungary Meat	Kiskunfélegyháza	1400 m^3/d
1998	slaughterhouse	Marcali	500 m^3/d
2000	Mustang textile	Zalaegerszeg	1200 m^3/d
2004	MOL raffinery	Miskolc	1600 m^3/d
2008	DIPA paper	Kosice	2x5000 m^3/d
2010	US Steel	Kosice	2x3600 m^3/d
2011	US Steel	Belezna	120 m^3/d
2013	Belezna mun. wwt	Tatabánya	16000 m^3/d
2014	Strabag mun. wwt	Szegvár	700 m^3/d
	SzPMH mun. dwt		

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Sector and subsector

About

Products, services, innovative solutions

LIGHTTECH LTD.

Water Disinfection, Air Sterilization, Surface Sterilization

LightTech Ltd. offers environmentally friendly and cost-effective solutions for UVC germicidal applications to treat or sterilize pools, spas, aqua culture, life sciences, and water treatment processes (wastewater, drinking water purification, ballast water and water reclamation), air, and surfaces. Our products are an essential part of various equipments that help safeguard drinking water from harmful microorganisms, wastewater before re-entering nature, food processing plants, hospitals, and HVAC applications.

LightTech is one of the world leaders in quartz germicidal lamps. Our research and development team is continuously developing new environmental technologies that are unique to the germicidal industry. We are committed to supplying ecologically-sound solutions worldwide as we strive to contribute to balance public safety and environmental protection with the need for effective disinfection. Our company will continue to grow its leadership positions in technologies that are vital for the current and future health of the earth's indispensable resources, such as clean water and air. UVC water treatment provides a safer and environmentally friendly solution.

The target of UV disinfection is the genetic material, nucleic acid. As the UV penetrates through the cell and is absorbed by the nucleic acids, a rearrangement of the genetic information occurs, interfering with the cell's ability to reproduce. A cell that cannot reproduce is considered dead; since it is unable to multiply to infectious numbers within a host.
The maximum absorption of UV light by the nucleic acid, DNA, occurs at a wavelength of 260nm. The germicidal lamp emitting UV at 254nm is operating very close to the optimized wavelength for maximum absorption by nucleic acids.
Specifically, UV-C light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA. The formation of such chemical bonds prevents the DNA from being unzipped for replication, and the organism is unable to reproduce. In fact, when the organism tries to replicate, it dies!
Offering the best products and solutions in the germicidal industry is important to us. Our team of engineers continually develops innovative solutions and proprietary technologies that are used worldwide such as the patented pellet amalgam design enabling horizontal, vertical and slanted applications. Our proprietary LongLife+™ coating allows us to dramatically increase the lifespan of germicidal lamps up to 16,000 hours and up to 85% UVC maintenance. The technology is environmentally friendly and is compliant with TCLP standards.
Shatter ProTech technology makes our lamps shatter resistant, containing glass fragments and eliminating the possibility for mercury contamination. Shatter resistance helps reduce human and product risk, glass related injuries, damage to expensive systems, equipment and product contamination, and lost production time. Shatter ProTech shield is heat and acid resistant and more cost-efficient than quartz sleeves. It will fit any lamp geometry and offers high performance at a low cost.
Because of its inherent benefits and endless possibilities, germicidal UVC technology is becoming more popular in many industries, worldwide, that require water, air and surface sterilization. It is a safe, simple, and cost-effective solution. Our products are used in units that help safeguard drinking water from harmful microorganisms, food processing plants, hospitals, HVAC applications, and in many other applications.

Water Disinfection

Germicidal lamps are used in many applications to create safe water including pools, spas, aqua culture, life sciences, and water treatment processes (wastewater, drinking water purification, ballast water and water reclamation) to eliminate chlorine and its harmful and irritating disinfection by-products known as DPS's (the most common DPS's are trihalomethanes and haloacetic acids). Traditional chlorine methods to treat and disinfect water can be hazardous to health and environment. UV water treatment is a safer and a more environmentally friendly solution.

Air Sterilization

Germicidal UV technology is used for odour control, sterilization, and elimination of VOCs and industrial exhausts containing solvents. In some institutions, such as hospitals, air quality is crucial for health. Germicidal UV purifies the air from microorganisms that cause illness and contaminants that aggravate asthma or other respiratory ailments. The use of UVC in odour control has many applications, including wastewater plants, farms, commercial kitchens (HVAC), and food processing plants. UVC germicidal lamps are also critical in purifying the air in industries where harmful and toxic chemicals are produced, such as printing, plastics and rubber.

Surface Sterilization

UV lamps disinfect surfaces without chemicals, which is crucial in many industries. In the food processing industry, for example, our lamps are used to sterilize rooms, shelves, refrigerators, filling equipment, conveyor belts, transport containers and working surfaces. Germicidal ultraviolet light can kill viruses, bacteria, yeast, and fungi in seconds and can extend shelf life and nutritional value. Unlike traditional chemical solutions to which bacteria can develop resistance to, it is impossible for bacteria, viruses and fungi to develop resistance to UVC.

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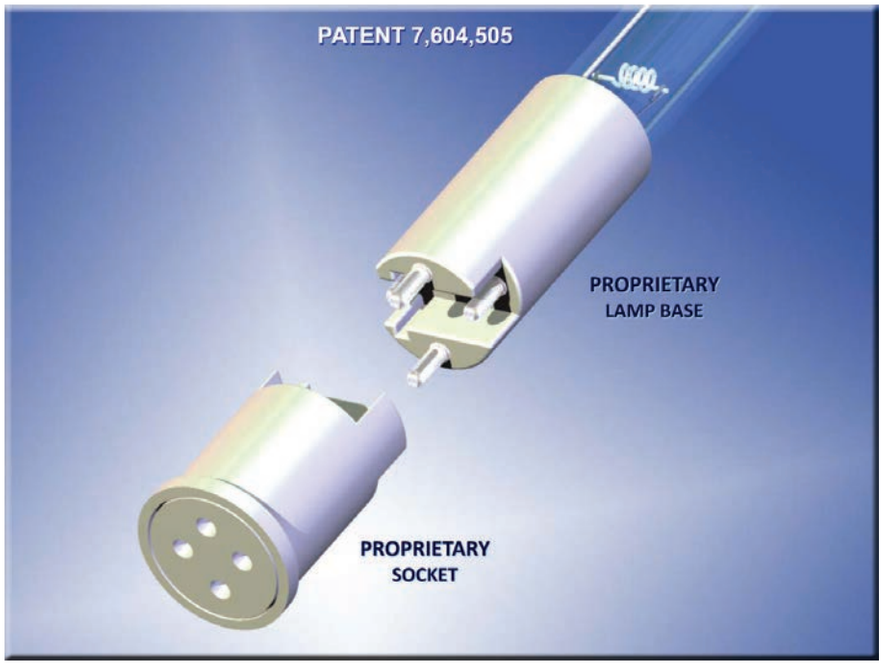

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LUTZ PUMPS LTD

Sector and subsector

Water treatment technology / Equipment manufacturing
Drinking water, sewage water, water treatment, surface treatment, swimming pool, beverage industry, food industry, chemical industries, etc.

About

The Lutz brand stands for fluid handling using drum and container pumps. In the year 1954 the company founder Karl Lutz started making electrical drum and container pumps in Wertheim. In recent years, the brand has developed into a synonym for complete systems designed to handle any fluid filling and transfer job.

The Lutz group today includes highly capable medium-sized companies operating in various industries and located both in Germany and abroad. The fusion of selected enterprises considerably enlarges the product range. Technopool GmbH joined the group in 2003, adding water treatment equipment for pools to the product line.
Lutz and Lutz-Jesco is successfully operating all over the world and in the special field of metering technology has acquired a reputation for excellence.
Our company represents innovative products with high quality, safety and reliability.
We achieve maximum customer satisfaction through a customer-oriented sales and after-sales service operated by our highly specialized staff.
Our aim is to continue being an independent, profitable and autonomous company and to use our own strengths to withstand market and worldwide competition. This includes meaningful cooperation and alliances with other companies which are also beneficial for our company.

Products, services, innovative solutions

Dosing pumps – reliable and flexible
At a drip or “flat out” maximum flowrate, in tropical temperatures and even in really acidic environments: dosing pump requirements are as varied as the possible applications and uses.
Lutz-Jesco has therefore developed special solutions for each area of application. Our extensive range of products start from cost-effective, magnetically-operated diaphragm dosing pumps, through the “muscular” motor-driven diaphragm dosing pumps, up to the piston dosing pumps for high pressure requirements. These are used for dosing fluids with highly varied viscosities, most of which are chemically aggressive and toxic and some of which are actually abrasive or emit gases.

Disinfection systems
As water consumption for public, industrial and domestic applications increases, the need becomes more urgent for water treatment systems to be more oriented towards recycling. Disinfection becomes particularly important at the last stage in the treatment process.
Here, a reliable dosing system is required if disinfectants are to be used responsibly in the water. For this purpose, research and development at Lutz-Jesco has produced system solutions that have international validity.
For the disinfection of drinking water, swimming and wading pool water, process water, cooling water and wastewater, different methods are used. These differ in their technical construction and in the type of chemicals used.
Our systems are designed to DIN standards and ensure optimum water quality through precisely measured disinfection. We apply our know-how and experience to find the best solution - technically and scientifically.
Chlorine dioxide systems (diluted solutions), Chlorine electrolysis systems, UV systems.

System and process technology
The complex systems and protracted processes in industry require a high level of precision when planning and implementing integrated dosing installations. As a manufacturer, Lutz-Jesco offers complete systems and/or a complete planning consultancy service for both standard applications and special requirements.
Easypure Powder & Liquid
For clean separation
EASYPURE Powder& Liquid is a fully automatic system for the continuous preparation of power and liquid polymer dosing solutions. The 3-chamber system largely avoids displacements of the prepared polymer.

Compact feed systems
All from one source
Chemical feed systems are preassembled systems which are ready for operation when they reach the customer. The standard version includes a PE tank, dosing pump, suction line with foot valve, an injection nozzle and a hand mixer.

Main partners of water supply, sewage treatment plants, swimming pools.

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Sector and subsector

About

Products, services, innovative solutions

References

Webpage

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MEDIKER LTD.

Environmental protection/Equipment manufacturing
Manufacture, marketing, construction, service of pumps, control equipments, wastewater pumping station

MEDIKER Ltd. is a designer, manufacturer, marketing and servicing company of machines and equipment related to environment protection. The company has been one of the biggest independent manufacturing and servicing companies in Hungary for more than 25 years. MEDIKER Ltd. is able to perform complex tasks; it supplies and operates complete plants, sewerage and irrigation systems.
Our colleagues – engineers, technicians and other experts – are at the disposal of our customers with their several decades' experience.
We are authors of innumerable studies and owners of several patents. We are present in Central Europe with our products. Our representatives can be found in each region of Hungary, along with the experts who provide for local servicing.
ACTIVITIES
1. Manufacture, marketing, construction, service of pumps, control equipment, wastewater pumping stations.
2. Manufacture of individual spare parts, replacing spare parts.
3. Engineering expert activity.
4. Service activity.
5.Activities connected to field-work

UNATTENDED WASTEWATER TREATMENT
Clogging-free multifunctional wastewater pumps of enhanced operation safety and long lifetime:
- Significant live labor reduction at operation due to the high-grade operation safety,
- Compatibility with the recent general systems,
- Favourable acquisition and maintenance costs.

HIDRO HA unattended prefabricated wastewater pumping station product-family:
- We apply the natural biodegradation technology at our small-community wastewater pumping stations in a unique way on the market. Due to it, they are of extremely high-grade operation safety, power saving and long lifetime,
- Utilizing the natural, physical, chemical, biological, disintegrating processes,
- Excluding the channel-foreign materials which cause the most failures in the practice,
- Shredding, discharging and removing the lumpy organic materials in the communal wastewater,
- Regularly aerating the wastewater in the pumping station, making it odour-free,
- Simple assembling at implementation and simple changeability,
- High energy efficiency in the realized technology due to the alternative timing program control,
- Flexible construction, fitting to diverse demands.

During the period of time from 1989 we have got about 5,000 customers, and the number of the manufactured products, primarily wastewater pumps with control equipments, prefabricated wastewater pumping stations with their accessories is over 300,000. In addition to the manufacturing, we make repairs, services of pumps. Besides Hungary, we deliver our products (mainly wastewater pumps with it accessories) also to our foreign customers to Finland, Poland, Slovakia, Romania and Slovenia.

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Sector and subsector

About

Products, services, innovative solutions

References

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METAL-ART PRECIOUS METAL INDUSTRIAL JOINT STOCK COMPANY

Drinking Water Mobil Purification System Antibacterial filtration with Carbon nano tube and Silver.

METAL-ART Precious Metal Industrial JSC as the legal successor of the Hungarian State Mint has been working in its current premises since 1922. Besides the production of classical metal coins, production of pure gold and pure silver were also in the portfolio. The company business is active in precious metal related heavy and service industries. Other industrial sectors (electronic, electro-technical industry, metalware industry, etc.) are supplied with semi-finished precious metal products and are clients for our surface treatment, galvanic and hazardous waste-acid, base, cyanide-solutions-treatments. The company has R&D laboratories and developed patented nanotechnology methods. The production and service is regulated by the quality and environmental control system based on MSZ EN ISO 9001:2009 and 14001:2005.

Drinking Water Mobile Purification System K180 Antibacterial filtration with Carbon nano tube and Silver. 1/ Mechanical filtration unit filters contaminating particles, pellets and grains. 2/ Antibacterial unit filters combined with activated carbon and carbon nanotube with silver. 3/ Variable filter unit activated carbon or Arsenic, Boron, Iodine decontamination. The mobile purification is equipped with a 1000 litre liquid bag.
Cupboard size assures flexibility and super mobility and is highly cost-effective. After the purification procedure remineralization is not needed. Due to silver grains that are applied on nanocarbon tubes, the filter system has a strong antibacterial effect against bacteria and fungus. The equipment produces drinking water from contaminated water. Capacity: 3000 m³/day. Energy: 220V or generator. This Mobile Purification System is applied in case of disaster, flooding and in small towns, where drinking water contamination requires a quick solution.

The Mobile Water Purification System is our newest development based on the century-long experience that silver can provide drinking water's quality for a long time. The official tests prove the excellence of our products, both in laboratory and environmental conditions.

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MOM PLC.

Drinking Water/Equipment manufacturing
+ Watermeters & Multi-Utility Smart metering

Our company "MOM" was founded in 1876 and initiated its production of metering devices in 1918.
In Hungary, MOM is the leading market player in the industry of metering device production, offering cost-effective and future-orientated solutions for its customers. MOM is the only Hungary-based water meter producer.
Beside the Hungarian market, our products are also present in the global market. More than 60% of the total MOM turnover is achieved from export sales conducted in four continents.
Smart metering is a new sector in the metering industry. We have significant advantage in this industry given our breadth of knowledge and experience in AMR (automatic meter reading) and also because MOM's Hungarian market share amounts to approximately 98%. Several successful projects have already been installed and most of MOM's manufactured products are "smart capable".
Thanks to our R&D team, we are able to regularly propose new state of the art products. Our newest product will be introduced in 2017: a precise water meter able to manage a longer life time.

Thanks to our products and experience, MOM Plc. is able to manage complex Smart Metering projects including multi-utility schemes – from the planning phase all the way to the billing phase.

- Drive-by AMR project / Pannonvíz Plc. / ~45,000 pcs Altair watermeter + radio module + system in domestic housing areas Győr-Moson-Sopron county/ 2006-2009
- Fixed Network (Smart metering) / ÉDV Plc. / ~ 1,400 pcs CORONA MWI + radio module + system in domestic housing areas in 3 villages / 2011 – 2014
- Drive-by AMR project / Nyírségvíz Plc. / ~12,000 AQUARIUS S watermeter + radio module + system in apartment area, Nyíregyháza / 2010 –
- Drive-by AMR project / Bakonykarszt Plc. / 8,500 pcs Calyga watermeters + radio module + system in domestic housing areas, Veszprém / 2010 –
- Drive-by AMR project / DRV Plc. / 7,850 pcs Altair watermeter + radio module + system in domestic housing areas, Somogy county / 2005 – 2010
- KOM Plc. multi utility project 2016 – 2017 - ongoing

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ÖKO CO. LTD.

Sector and subsector

Water management/Consultancy
drinking water/sewage water/flood protection/
river basin management/hydro-economics

About

ÖKO Co. Ltd. was established in 1991 as ÖKO Inc. However, the core of the professional team had been established as the hydro-economic research team of the Water Research Centre already in the '60s.
We carry out a considerable amount of varying activities: almost all fields of environmental protection are covered, from the assessment of environmental damage through environmental audits and environmental impact assessments, to water and waste management as well as conservation and the preparation of policies and pieces of legislation.
We possess comprehensive expertise in the strategic environmental assessment of large-scale programmes, strategies and plans, as well as in the environmental impact assessment and environmental and water right permitting of single investments.
Conducting socio-economic analyses and the planning of economic incentives and pricing are also parts of our main profile.
Lately, we have been especially active in the field of the planning, preparation and monitoring of projects applying for EU support. This entails the preparation of feasibility studies (together with CBAs) and complete project applications too.
At present, there are 11 highly qualified experts employed by the company, mainly economists and engineers.

Products, services, innovative solutions

Our main water-related services cover economic, institutional, technical and environmental consultancy.
In particular, the development of water policies and strategies, the preparation of river basin management plans (at country and at sub-basin levels), planning the rehabilitation of water courses, lakes as well as drought-stricken areas and irrigation, flood control and flood risk management, conducting socio-economic analyses and pricing, preparation of feasibility studies and project applications, environmental assessments as well as participation in the environmental licencing process can be highlighted.
We provide our services for ministries and authorities (e.g. water management directorates) as well as public utility operators, municipalities, private companies, etc.

References

Main Hungarian references (customer: General Directorate of Water Management):
Preparation of the Jenő Kvassay Plan and revision of the river basin management plan
Price: EUR 2,891,255 Start/end dates: 04.2015-03.2016
Preparation of the river basin management plans of the subunits, of the sub-basins and of Hungary
Price: EUR 4,873,276 Start/end dates: 12.2008-04.2010
Preparation of a water resources management project in order to improve the water scarce ecological status of the Duna-Tisza köze Region
Price: EUR 3,023,150 Start/end dates: 04.2014-12.2015
Improvement of the water management and water quality of the Ráckeve-Soroksár Danube Branch
Price: EUR 3,693,269 Start/end dates: 08.2007-10.2010

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PROMINENT HUNGARY LTD.

Water Treatment- and Water Disinfection Technologies
Potable water/Waste water/Swimming Pool water/Cooling water/Utility water

Having an idea is one thing. What you do with it is something very different. A pioneering spirit and passion for technologies sometimes takes you all over the world. The commitment to change something in the world has also made the company what it is today. The company's founder Prof. Dr. h. c. Viktor Dulger was always interested in finding technical means of producing and reusing potable water and continually further developing them. This passion is contagious – and still today shapes the attitude of the ProMinent Group and its staff.
The ProMinent group of companies is based in Heidelberg and for over 50 years has been developing and manufacturing components and systems for metering liquids and solutions for water treatment and water disinfection.

"ProMinent is the reliable solutions partner for water treatment and a manufacturer of components and systems for chemical fluid handling. Based on our innovative products, services and industry-specific solutions we provide more efficiency and safety for our customers – worldwide."
Our Goal
More efficiency and safety for our customers

Our Offer
Components, Systems, Services and industry-specific Solutions

Our Values
- Reliability
- Innovation
- Solutions Driven
- Global

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Sector and subsector

About

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About

Products, services, innovative solutions

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PUREAQUA LLC. – CLEAN WATER FOR THE HEALTHY ENVIRONMENT.

Wastewater treatment facilities/Implementation
Design, installation, operation, machine manufacturing

PureAqua Llc. is an environmental engineering company founded in 2005. We are a dynamic team fond of problem solving in the field of water treatment by the application of creative and innovative solutions. Now we are a team of more than 30 people with a broadened profile. In addition to the abovementioned fields of work, we also work in the line of industrial process water and potable water treatment and industrial process water and wastewater treatment operation. Regarding operational tasks, we take over the whole responsibility by agreement for full-scale operation with pleasure, letting the production companies deal solely with their main activities. In 2015 we started a new branch: machine manufacturing. We manufacture and sell DAF units, drum screens, chamber filter presses and polymer mixing and dosing stations. We are still broadening the group of machines designed and made by us. We have a modern laboratory background which helps us solve various industrial sewage treatment problems, mainly by gathering detailed knowledge about a certain industrial sewage stream and choosing the best technology for the proper treatment.

In the field of municipal and industrial wastewater treatment as well as industrial product water and potable water treatment, our company offers the following services:

- technology design (also including preliminary laboratory scale and pilot scale tests if required, preparation of the authority licensing documentation on demand),
- technology installation (also as a main contractor, turn-key implementation of facilities on demand),
- technology operation (also full-scale operation including the operating staff, waste management, supply of chemicals, maintenance, making yearly environmental and other kinds of confessions, announcements (air, waste, water, wastewater) - according to the agreement),
- machine supply designed and manufactured by us (in possession of ten year's technology design, installation and operation, knowing the advantages and disadvantages of the various machines available on the market).

- Design, implementation and trial operation of the water treatment plant of the polluted groundwater from the remediation of the industrial park. 250 m^3/d, Hungary, Berhida, 2014-2015
- Implementation of the wastewater treatment plant of Alföldi Tej Ltd. dairy factory. 1,500 m^3/d, Hungary, Székesfehérvár, 2013.
- Design, installation and trial operation of the wastewater treatment of Otto Fuchs Hungary Ltd. (automobile industry) 250 m^3/d, Hungary, Tatabánya, 2014-2015.
- Design, installation and trial operation of the wastewater treatment of SÁGA Foods Plc. (meat industry) 400 m^3/d, Hungary, Sárvár, 2015-2016.
- Design of the municipal wastewater treatment plant of Sarkadkeresztúr (200 m^3/d) and Kisszállás (225 m^3/d). Hungary, 2013.

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PURECO LTD.

Water treatment facilities/Implementation
Drinking water purification, wastewater and landfill leachate treatment, storm water management

Pureco and its partners believe that the best solutions are derived from close cooperation and collaboration. This philosophy together with our excellence, reliability and professionalism enables Pureco to be unique in the market and provide 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. We focus 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 and the Middle-East through our projects. We can proudly say that in recent years we significantly contributed to the development and improvement of the Hungarian water utility services, to the environmental protection and water conservation in Hungary as well as in the neighbouring countries. We are proud of our professional technical knowledge and experience and of the fact that we provide a healthier environment for more than 500,000 people.

We believe in people. With our highly qualified and experienced colleagues, we are able to provide customized solutions in order to bring customers added value in the following core fields of water management: drinking water purification, wastewater treatment, landfill leachate treatment, ground water remediation, storm water management.
We work with designers, civil engineers, investors, constructors, operators and focus on keeping systems running at maximum performance and at the lowest cost of ownership, from the emergence of the idea all the way through to the Design, Implementation, Operation and Maintenance of the said idea. Our products and technologies are extremely durable, they are fast and easy to install and later they offer effective cleaning, maintenance and operational capabilities. Our treatment units are equipped with the latest technological development: they operate via Reverse Osmosis technology and are installed after suitable pre-treatment steps. Making the technology available in container means transportable, complex, easy to install solutions for purifying the dirtiest water of human consumption.

Water-purification and service system construction in Vietnam (drinking water treatment plant/design and implementation/10,000 m^3 /d, 2016)
Municipal wastewater treatment plant in Bulgaria / 18,000 m^3 /d, 2016)
Industrial WWTP in Kiskunmajsa, Hungary (120-200 m^3 /d, 2015)
Leachate treatment in Oradea, Romania (120 m^3 /d, 2015)
Patented solution for rain water treatment, Arad bypass highway construction work for water management - ENVIA TRP / 50 pieces between 60 and 225 l/s, 2012)

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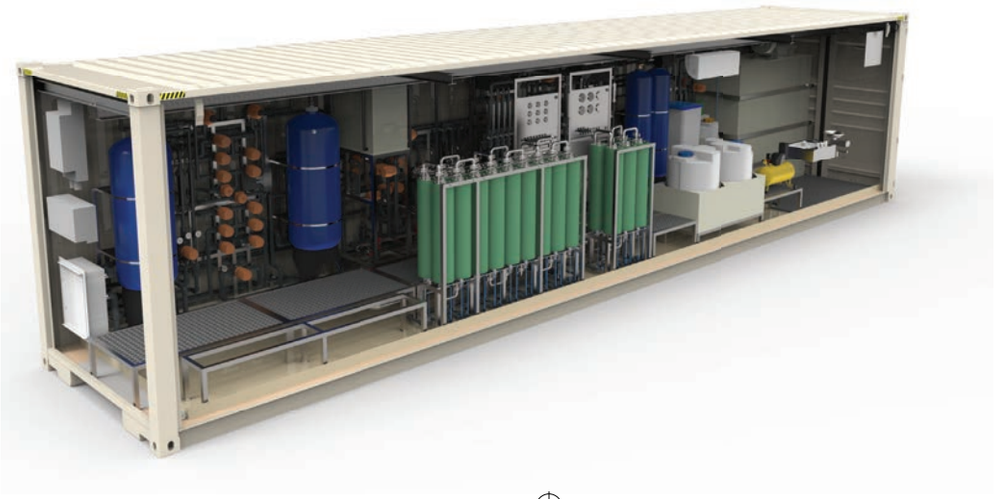

R&R SOFTWARE PLC.

R&R Software
VÁLLALATI ÜZLETI ALKALMAZÁSOK

Sector and subsector

Consultancy/IT Services
Enterprise IT software: ERP, Customer Care, Billing, Operation Support, Controlling systems

About

R&R Software develops and delivers enterprise business applications. Since its founding in 1991, operation has been continuously profitable every year. With an expert base of more than 160 people, R&R Software is a decisive contender in the high value added Hungarian IT industry, with constantly growing export KPIs.
R&R Software continuously reinvests its business results in business and product development and on establishing an even more solid financial foundation. The result of this endeavor is a well-capitalized company with a comprehensive water utility product and service portfolio and decisive Hungarian market share - offering mutually beneficial long-term relationship to its partners and customers.
The company's complete operation is ISO 9001:2008 quality-controlled. The quality policy's focus is customer satisfaction: independent surveys have been returning above-80-percent results in the last 10 years, placing R&R Software high above the industry standard levels. Average "customer lifecycle" exceeds 10 years. Modern, automated quality assurance tools and controlled development and implementation methodologies ensure the continuous high levels of product excellence.

Products, services, innovative solutions

R&R Software and its solutions fully support the concept of digital economy and Industry 4.0 through the utilization of IT technologies and digitalization methodologies. R&R Software's ultimate goal is to provide IT solutions to water utility companies that support, control and monitor customer-centered, sustainable, and efficient services.

R&R Software's portfolio for water utility service providers includes:

- The FusionR ERP system
- The FusionR BSS customer relationship management, mass billing and revenue assurance system
- The FusionR EDM electronic document and invoice management system
- The FusionR FFA field force automation system with mobile device support for field operations (meter reading, on-site customer relationship tasks, technical task support, etc.)
- Business Analytics portfolio: business intelligence, enterprise planning/performance management, and data warehouse systems with market-leading Oracle, IBM and Microsoft technologies.
- Energy management and smart metering solutions for controlling and monitoring industrial energy/ utility consumption centrally.

References

- Sopron Holding Plc. (City public works company group of the city of Sopron)
- Nyírségvíz Plc. (Drinking and sewage water utility service provider in Szabolcs-Szatmár-Bereg county)
- Pannon-Víz Plc. (Drinking and sewage water utility service provider in Győr-Moson-Sopron county)
- Vasivíz Plc. (Drinking and sewage water utility service provider in Vas county)
- Széphő Plc. (City public works and teleheating company of the city of Székesfehérvár)
- Győr-Szol Plc. (City public works company of the city of Győr)
- HMV Plc. (Drinking and sewage water utility service provider in Heves county)

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ROLLING SON LTD.,
DELABIE EXCLUSIVE REPRESENTATION

Water supply systems/Equipment manufacturing
push-button infrared sensor taps, faucets, Emergency Showers, taps, hospital and laboratory fittings

DELABIE: a distinguished history
In 1928, Georges DELABIE, a sanitary-ware wholesale merchant in Paris, acquired a foundry located in Friville in the Somme, France. There he produced mainly taps and floor traps for bathrooms and kitchens.
Subsequent generations secured the family-owned company's growth, with the ongoing remit to preserve the brand's identity and continue its pursuit of excellence.
Initially specialising in domestic sanitary fittings, DELABIE quickly repositioned itself in the sector that now constitutes its core target market - buildings in the public domain.
With the passage of time, investment in Research and Development has established the brand as a benchmark for quality. In less than 100 years, DELABIE has become a leading player in the non-domestic, sanitary fittings market. European market leader for tap ware and sanitary accessories for the commercial sector, the DELABIE group continues to grow by opening international subsidiaries and through overseas acquisitions, considerably expanding its offering.
Our company, the wholly-owned Hungarian Rolling Son Ltd was founded in 2003.

French DELABIE push button and IR-sensor faucets, Emergency Showers, taps provided with representation hospitalization since 2005.
We specialise in water conservation, energy conservation, environmental protection and long-term durability.
We offer solutions in different facilities - sports centers, spas, shopping centers, manufacturing plants, health, social and educational institutions, hotels, transport facilities.
Millions of pieces of products are produced annually exclusively in France. We distribute high-quality fittings in 70 countries. The company is known worldwide.
Water canal fees, energy prices and maintenance costs are rising. DELABIE quality products will ensure economical operation - requiring minimal maintenance thanks to the tireless, self-cleaning, calibrated hydraulic mechanism, the scale-free shower heads, easy controllability and speed-mounted grounds.
We at DELABIE think long-term: this allows us to provide our customers – designers, investors and operators – guarantees. The electronic products and the push-button faucets have a warranty of 10 years.

SPORTS FACILITIES:
Gold Team Football Stadium, Felcsút 2014., Swimming pool in Budaörs, BVSC swimming pool,
Swimming pool od Debrecen City, Erzsébet-liget swimming pool (Bp.), Érd swimming pool, Folyondár Sport and Dance Center, FormaZona Fitness (Kecskemét), Gilda Max fitness, Kecskeméti swimming pool, Komjádi swimming pool, Lukács Spa, Life 1 Wellness, Miskolc swimming pool, Pécs swimming pool, Százhalombattai swimming pool, Szegi Fittness, Széchenyi Spa, Veszprém swimming pool.

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Sector and subsector

About

Products, services, innovative solutions

References

Webpage

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S-METALLTECH 98 MATERIALS RESEARCH AND DEVELOPMENT LTD

(S-Metalltech 98 Ltd)

Boron Fluorine Iodine Arsenic Mitigation Technology

Water treatment technology
drinking water / industrial wastewater / irrigation water / animal watering

The main activities of our company are the development and production of special materials applied in the fields of environmental technologies as water treatment, power industry and reactor technique:

- Research, development and production of multicomponent materials based on mainly the HERF techniques cooperating with home and foreign partners

The High Energy Rate Formings (HERF) allows the manufacturing of products with unique properties at reduced cost, with significant applications in electrical, mechanical and nuclear engineering.

- Elaboration of water treatment technologies and production of adsorber material for arsenic, boron, iodine and fluorine mitigation

We have developed the simple* and flexible** MET Water System to supply safe drinking and irrigation water by treating arsenic, boron, iodine or fluorine contaminated waters.
* Simple: meaning that the operation of the equipment does not require any special skill or supervision
**Flexible: meaning that the system can be simply matched to the composition of the local water quality and the equipment can be produced in the capacity range of 1 m^3/day – 10,000 m^3/day.

In 2014 we designed and built a factory in Jászfényszaru (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 we have developed the MET Water System. The easy-to-treat, small (EU norm pallet sized) water treating MET Water Units (MWUs) installed in different villages and/or institutions (hospitals, schools etc.) are organized into a network consisting of 10-50 MWUs and one Monitoring and Service Center. The MWUs are equipped with a communication device which transmits the data on 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.
The digital arsenic detector is a simple and inexpensive device for on site monitoring the arsenic concentration of waters. A fully automated measurement equipment performs all tasks from sampling to displaying results.
More than 10 different types of our systems are in operation in Hungary with the capacity range of 6 m^3/day – 1200 m^3/day. These systems are operating at waterworks, schools, food companies, crop growing companies etc. We have 3 test units in Serbia, Slovakia and in Vietnam.

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SMARAGD-GSH Environmental Services Ltd.

Sector and subsector

Environmental protection and water management
(Groundwater, surface water etc.)

About

SMARAGD-GSH Ltd. was established in 1994. Currently, there are two Hungarian owners. The founders of the company participated in environmental projects since the beginning of the 1990s.
The first project of the company was an environmental remediation of an oil polluted area; at present, our company provides services in all fields of environmental protection and water management.
Our experts – geologists, hydrogeologists, environmental engineers – pay attention not only to environmental protection but sustainable development as well. Thus, the primary aim of our company is to find solutions that satisfy the demands of the client, society and the nature.

SMARAGD-GSH Ltd. has been using a quality management system since 1999 in the fields of environmental and hydrogeological profession, engineering, construction and innovation.
From 2011 onward the MSZ EN ISO 9001:2009 quality management system was integrated with MSZ EN ISO 14001:2005 environmental management system that worked up an Integrated Management System according to e.com CERT proceeding.
The Ltd. acquired sampling accreditation of the Hungarian Accreditation Board (NAT) in 2001.

Products, services, innovative solutions

Our main activities at SMARAGD-GSH Ltd. are research, engineering, licensing and construction in all fields of environmental protection and water management:

- Water resources research; engineering, licensing and construction of water supply wells (drinking water, mineral water, thermal water, irrigation water)
- Research on geothermal energy; engineering of water supply facilities
- Water supply protection and all-inclusive water supply diagnostics
- Determination of protection zones of water supplies
- Completion of drinking water safety plans
- Regulation and implementation plans for surface waters
- Hydrological research and expedition surveys
- Determination of ecological water demand
- Accredited soil and water sampling
- Hydrodynamic and transport modelling
- Engineering, licensing, construction and operation of groundwater monitoring systems
- Designing and construction of GIS databases
- Water management plans
- Environmental impact studies
- Environmental geological state surveys
- Environmental remediation designing and construction
- Environmental and hydrogeological research and innovation
- Tendering, project management and coordination
- Involvement in international projects

River Basin Management Plan of Hungary (RBMP I. & II., 2010 & 2016) based on the EU Water Framework Directive.
The main task of SMARAGD-GSH Ltd. was the evaluation of groundwater resources quantity conditions and coordination of the tasks on water supplies.

Climate Change and impacts on Water Supply (2009-2012)
18 institutes from 9 countries joined to implement CC-WaterS project
The aim of the project was to investigate the risks and solutions of the water supply. www.ccwaters.eu

Safety plan of Miskolc karst water supply
On behalf of the Municipality of Miskolc, SMARAGD-GSH Ltd. designed the safety plan of the Miskolc water supply (2010-2012). The project was funded by the EU and was coordinated by Miskolc Waterworks Ltd. (MIVÍZ).

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References

Webpage

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SZABADICS PLC.

Sector and subsector

Water treatment facilities/Implementation

- construction of sewage systems (construction of sewage systems and related facilities)
- water regulation activities and environmental protection
- drinking water system and reconstruction
- district-heating system reconstruction and construction
- construction of optical pipeline/cable system

About

Szabadics Plc. was founded in 1990 with civil engineering as its main business activity. We initially focused on the construction of sewer systems for local municipalities and on the development of existing sewage treatment. One of our business branches, the Hydraulic Engineering Structures branch, implements projects related to water management, construction of hydraulic engineering structures, flood control and river control. In 2013 we expanded our field of activities to include the construction and refurbishment of drinking water systems. We have our own resource capacities which we use to implement construction projects; in other words, we are resource-independent to a large extent. Moreover, we have an innovative and complex business management system, unique in the field of construction; this business management system enables us to implement traditional project-controlling from the planning phase to the post-calculation phase.

References

- Construction of a local Water Management System, Location: Zalaegerszeg and its region, 2015, EUR 12,000,000.
- Construction of a local Water Management System, Location: Decs and its region, 2015, project size: EUR 4,000,000.
- Drinking Water Improvement Program for Dombóvár and its Region, 2015, project size: EUR 7,870,000.
- Planning and construction of the capacity expansion of the sewage treatment plant in Keszthely and the related mud handling equipment, 2015, project size: EUR 8,150,000.
- Development of the Sewage System and Sewage Treatment Plant in Nagyatád and its surroundings, 2015, project size: EUR 14,300,000.
- Improvement of the Safety of the Flood Control Collection Zone in Komárom, Almásfüzitő, 2016, project size: EUR 16,320,000.
- Improvement of the Water Refilling System in Szigetköz on the Protected Side and on the Flood-Plain for Ecological Purposes, 2016, project size: EUR 14,530,000.

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THERMOWATT ENERGY AND BUILDING LTD.

Water treatment technology/Wastewater treatment technology
Sewage water/sewage water-heat utilisation for thermal energy generation

THERMOWATT Ltd. was established specifically for energy utilization of waste-heat and started research and system-designs in this field in 2009. It successfully developed a technological solution to utilize energy resided in wastewater to cool and/or heat bigger buildings in a modern, environmental friendly and economical way. Using this international innovation award winner and patented heat-pump based technology heat is recovered from, as well as rejected to, a hidden and rarely used energy source: wastewater.
With this form of alternative energy there is no hazardous waste or toxic emission, no unnecessary water consumption, no complicated transportation or expensive installation and due to the carefully designed, optimized and harmonized system elements the most efficient and energy saving operation is achievable.
There are already 5 systems of 1MW - 3.8MW sizes running in Hungary amongst slightly different circumstances filling dissimilar system-requirements (cultural centre, office buildings, warehouse spaces, university building and a Military Hospital). Thermowatt has designed, constructed and now operates these systems.

The main point of the Thermowatt Technology is to take out wastewater from the sewer line, direct it to a heat exchanger in a mechanically filtered form and then lead it back to the sewer line along with the separated solid particles. The heat energy recovered by heat exchangers is transferred into utility heating or cooling via water/water heat pumps. The technology has also been tested in extremely low and high external temperatures (-17 °C - +37°C) and under fluctuating quantity and quality wastewater conditions.
Innovations, advantages:

- The system can be used in both cooling and heating mode – even simultaneously
- Larger buildings' larger energy demand served: 10,000 m^2 (1 MW) and over
- High energy efficiency (COP: 6-8)
- No installation inside the sewer
- Compact size, city centre installation is possible
- Easily accessible and maintainable, integrated control system with specific software (remote supervision 24/7, alarm)
- System elements are optimised and harmonised, carefully designed devices
- Elimination of fossil energy sources, zero water consumption, no hazardous waste or toxic emission
- No size limit: its potentially multi megawatt scale is limited only by the volume of available wastewater

Reference operating systems:

- MOM Cultural Centre, Budapest (size: 1 MW, operating since April 2011)
- Budapest Sewage Works headquarter (size: 1 MW, operating since November 2012)
- Medical Centre of Hungarian Defence Forces, Budapest (size: 3.8 MW, operating since July 2014)
- University of Szeged – JATIK Building (size: 1.4 MW, operating since September 2015)
- Budapest Sewage Works – Ferencvaros Pumping station (size: 1.2 MW, operating since November 2015)

International award winner technology:

- Aqualia Award for Innovation (WEX Global – Water Energy Exchange, 2013)
- Water&Energy Award (WEX Global – Water Energy Exchange, 2014)
- First Place Innovator in the Water for Real Estate Sector (Innovate@IWS 2015, Abu Dhabi)

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Sector and subsector

About

Products, services, innovative solutions

References

Webpage

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TRINITY ENVIRO LTD.

Trinity Enviro

Environmental protection/Consultancy
erosion; water quality; lake restoration; irrigation;
eutrophication, stakeholder consultation, participatory planning; ecosystem management

Our company is a consultancy comprised of the finest, most highly educated experts in their respective fields, specifically chosen according to their interdisciplinary knowledge.

We have also created products – such as our PhosFate waterbasin management support GIS based modelling software for erosion reduction and fighting against eutrophication used in Switzerland, China, Lebanon, Albania, Hungary, Romania; algae counter DF for lakes, which is used in China, Sweden, Israel and in Hungary. Our aid for city-lakes and freshwater aquaculture has been released recently.

References from four continents the highly developed countries as the EU or China to the least developed countries as the Solomon Islands for multi-national companies as OiLybia or Holcim to various IFIs as the World Bank or SWISSAid.

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ESTABLISHED IN 2003, BUDAPEST, HUNGARY
THINK TANK or KNOWLEDGE HUB in
ENVIRONMENTAL CONSULTING

- multi aspectual view - water sciences, biology & ecology, social & cultural sciences, economics and law;
- ability to make scientists, engineers and decision makers to tackle complex problems together.

Partners Worldwide

- Interdisciplinary knowledge in water management, erosion and flood control, river basin management, mitigation of and adaptation to climate change;
- Highly qualified staff;
- Major references from 4 continents.

UNICHEM LTD.

Water treatment technologies/Chemical treatment
Production and sale of specialty and commodity chemicals
and biological products for municipal water and wastewater plants

UNICHEM Ltd. is a medium range chemical company. It was founded in 1990 by Hungarian private owners. Our main products are BOPAC polyaluminium-chloride, UNIFLOC-C ferric-chloride, UNIFLOC ferric-sulfate, UNIPAC polyaluminium-chloride, UNIFLOC polymers and biological products of Novozymes®.
UNICHEM's products are applied in the following technologies: water and waste clarification, sedimentation, flotation and bioaugmentation.
We are a member of the Association of Waterworks and Sewage Plants of Hungary.
The main products of UNICHEM Ltd. are inorganic coagulants and proprietary organic polymer flocculants for domestic and industrial waste clarifying and different industrial processes.
Our factory is located near Szeged (in the South of Hungary) along the M5 highway at Kistelek. The production, quality control, logistics and financial departments are located at the headquarters.
UNICHEM factory works under strict safety and environmental standards. The raw materials and products are kept under severe quality control by the Quality Control Laboratory of UNICHEM Ltd. We implemented the ISO 9001:2000 Quality Control System in 2001 and ISO 14001:2005 Certificate in 2009.

We are active in the field of drinking water treatment with our own innovative BOPAC coagulant. BOPAC (polyaluminium-chloride) is a unique, ACH type, extra effective coagulant and flocculant with high basicity. It is widely used in the following areas: drinking and industrial water, wastewater treatment and paper industry.
The main products of UNICHEM, besides BOPAC polyaluminium-chloride, are other types of polyaluminum-chlorides, UNIFLOC-C ferric-chloride, UNIFLOC ferri-sulfate and UNIPAC polyaluminium-chloride, polymer products for sludge treatment and other applications, commodity products and specialty chemicals and combined products for special water and wastewater applications.
With respect to our wastewater and sludge treatment services, we offer a wide range of bioaugmentation products manufactured by Novozymes® Biologicals Co.

Foreign partners:
- German water works and chemical companies
- Austrian Chemical companies
- Various Romanian trade partners

Hungarian customers:
- Water Works and industrial partners
- Municipal water and wastewater companies

The end-users of our technologies and products are waterworks, wastewater plants and various industries such as the paper, food and petrochemical industries.

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VEOLIA ENERGY HUNGARY CO. LTD.

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 out 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 174,000 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 20 years Veolia is one of the market leader companies in the energy, water and waste management industry. The group company employs approximately 2,500 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 Waste Water 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.

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VTK INNOSYSTEM WATER-, NATURE- AND ENVIRONMENTAL PROTECTION LTD.

Sector and subsector

Environmental protection/Consultancy
Drinking water, Wastewater, Consulting, Engineering, Preparation of Water Infrastructure Investments

About

VTK Innosystem Ltd (as VITUKI Innosystem Ltd.) was established in 1989 by the Water Resources Research Centre (VITUKI) and former researchers. The company broadened its range of activities to the different sectors of environmental protection. The company is now staffed by a wide range of professionals and has a large network of external experts and partner firms. VTK Innosystem Ltd has implemented successful projects on several fields in the last decade. The staff members of VTK Innosystem Ltd. are constantly updated on the developments of the company. Our experts, being tested several times, enable us to provide flexible, experienced and tailored team at our clients' disposal in short notice. We believe that the secret of our success is rooted in the satisfaction of our partners and clients. Our ISO 9001 Quality Assurance System and ISO 14001 Environmental Management System provide a guarantee to our partners that we execute the contracted tasks on a high professional and environmentally sound level. Our Certificate of Quality Assurance, received in 1997, and Certificate of Environmental Management System, received in 2000 have been regularly updated to meet the changing circumstances.

Products, services, innovative solutions

VTK Innosystem's services include concept formulation, preparation of feasibility study, water and environmental licensing for water supply and wastewater control systems for both municipalities and industries. We have extensive experience in wastewater treatment system planning, our engineering staff has prepared and evaluated several feasibility studies, application documents and tender dossiers for PHARE, ISPA and Cohesion Fund financed projects and are knowledgeable of the requirements of current and upcoming national and EU regulatory drivers.
VTK Innosystem provides in-depth knowledge and responsive, quality services to meet the regulatory needs of our clients while offering permitting and compliance services at the local and national level in governmental and private business sectors. VTK Innosystem has implemented permitted, both small and large scale projects throughout the country.

- Surface Water Quality Control, Research and Modelling
- Environmental Impact Assessment
- Environmental Due Diligence
- Site Assessment and Polluted Soil and Groundwater Remediation
- Hazardous and Communal Waste Management, Sludge Disposal
- Protection of Surface and Subsurface Drinking Water Sources

References

2010 Preliminary investigation documentation of the biological intensification of the Wastewater Plant of Miskolc with the load investigation of the Sajó river. Mélyépterv Komplex Plc.
2011 Feasibility study for the extension and reconstruction works of the Wastewater Treatment Plant and Sewer Network of Sarkad. Municipality of Sarkad
2009 Planning and preparatory works of the development of Győr-Gönyű civil harbour. ÉDUVIZIG
2011 Project preparatory work for the water management rehabilitation of the Mosoni-Danube and Lajta river region. ÉDUVIZIG
2011 Studies to the elaboration the project aiming at the navigability of the Danube. VITUKI 170 M HUF
2011 Preparatory works and ecological objective development of the water supplementary system in the outside slope and flood land of Szigetköz. VIZITERV CONSULT Ltd. 69 M HUF
2011 EIA for the rehabilitation of the water systems of Gemenc and Béda-Karapancsa. DD-KÖVIZIG

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WATER&SOIL LTD.

Water management/Chemical treatment

Water&Soil® Ltd. (W&S) is an agricultural material producer company addressing one of the greatest limitations to global agriculture: water scarcity. According to FAO data 3.2 billion hectares arable land is affected. There were 5.4 billion people in the World in the 90's and the average 0.3 hectare per capita agricultural land provided the food supply. There will be 9.2 billion people in 2050 and 0.16 hectare agricultural land should provide the food supply for them.
Water Retainer is an organic-based liquid soil conditioner, which retains the already existing humidity in the soil.
The use of our Water Retainer technology allows for crops to survive the drought period much longer (1-2 times) in rain-fed cultivation. This can result in a 14 – 37 % yield increase. The farmer can save up to 50 % of its irrigation water in irrigated cultivation. The product is registered to be used in organic farming.
The Water Retainer is designed to reduce the impact of climate change. Creating a better humidity situation in the soil has several distinct advantages, as it results in increased microbiological life activity, increased crop yield, better germination, reduced salinization and provides good ROI to farmers.

W&S has developed the Water Retainer. This organic-based soil conditioner is used for retaining humidity in the soil. It is also able to collect humidity from the air, which can therefore serve as an additional water supply to the soil. Proper water management is vital for a good yield and also for the soil health. Water retainer helps it with reducing the evaporation loss of the soil.
Water Retainer is applied as a soil conditioner. It degrades without any remedy in around 3 months. Maintaining treatment is a possibility if needed. It can be used in organic farming too. The use is independent from the soil type and from the kind of a plant because the Water Retainer works as a physical action. It doesn't change the soil or the plant. It can be applied everywhere the plant grows in soil.
The most common application form is spraying. All the existing equipment can be utilized for this job. It can be applied together with, for example, pre-emergent herbicides and used for agricultural land, greenhouses, city parks, sport facilities or in a home garden.

The Water Retainer's distribution network includes Hungary, Poland, Croatia and Chile. Other countries are about to come such as USA, Morocco, Portugal, Spain, Bulgaria, Italy and the United Kingdom.

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WATERSCOPE INTERNATIONAL INC.

Sector and subsector

Drinking water / Water quality measurements
Biological water monitoring / analyzing and conducting water quality measurements.

About

Waterscope International Inc. was founded in February 2016 by Knot Ltd. We develop, produce and trade the WaterScope device. After technical and microbiological development, production can be initiated. The harmony of development, the continuous monitoring of our products' manufacturing origins, as well as the motivation of our employees in finding new and newer technical solutions, have together enabled our company to produce a product that meets the requirements of shareholders and customers alike.
We are always looking for different opportunities for cooperation with Hungarian and foreign companies, R&D&I projects, pilot testing and other professional and commercial opportunities that advance our company and the product. We organize trainings for our business partners and support their presence in the market. We also provide continuous feedback and regularly share our experiences. Our vision is: "The target of joint activity is building a well-known and internationally acknowledged high-tech brand that can be utilized by end-users satisfied in all parts of the world."

Products, services, innovative solutions

Our products:
WaterScope Mono
Onsite device
Typical organisms: unicellular and multicellular organisms (worms, nematodes, flagellata, rotifers) giardia and cryptosporidium – under development
Analyzed volume: 1.5-2 l/hour
Size of recognizable objects: 50-300 µm
Method of analysis: morphological
WaterScope Micro
Onsite and table-top device
Typical organisms: algae species, iron bacteria, some funghi species
Analyzed volume: 1-2 ml/hour
Size of recognizable objects: 5-150 µm
Method of analysis: morphological and color
Both products:

- Display: customized
- Early warning: email, SMS, web
- Data connection: LAN, WAN, m bus
- Size: 400x250x600 mm

Advantages:

- Real time monitoring: on-site measurements and early warning ensured 7/24.
- Automated process: fully automated solution from sampling until reporting.
- Reliable data: recognition and classification is independent from human skills
- Online access and alarm: remote data access and automatic alarm through the Internet.
- Easy integration: designed for easy integration into existing systems.
- Low maintenance requirements: developed to minimize maintenance needs and cost.

Multiple applications:

- Water utilities
- Surface waters
- Fish farms
- Process water in food industry
- Research centres and laboratories
- Industrial water

Our references: in Hungary 11 pcs. of WaterScope devices were sold and further 4 pcs. are in pilot sites. International sales has been already started. 5 pcs. of WaterScope devices are in pilot sites in Germany, Netherlands, Italy, Croatia, Austria and we also started sales in South Korea.

www.waterscope.eu

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References

Webpage

E-mail

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WESSLING HUNGARY ENVIRONMENTAL, FOOD SAFETY, HEALTH AND QUALITY SERVICE LTD.

Sector and subsector

Water management/Consultany
drinking water, groundwater, public and natural bath water, surface and wastewater, sewage sludge, surface water sediment

About

WESSLING Hungary Environmental, Food Safety, Health and Quality Service Ltd. has been present in the Hungarian market for more than two decades. Our accredited areas of activities include environmental analyses, food and feed analyses, pharmaceutical analyses, consulting and training and research and development.
The accredited and independent laboratory, WESSLING Hungary is part of the WESSLING Group, a network of international laboratories founded in the 1980s by a German chemist, Mr Weβling. WESSLING is present in Hungary since 1992 and has more than 200 employees. The company plays a unique role in the market.
Quality, Safety, Health, and Environment were chosen by WESSLING as guiding principles. Previous professional experiences have confirmed that joint management of the above aspects makes it possible for similar companies to operate at an outstanding level towards improving life quality.
Our mission and our dedication are reflected in our slogan: WESSLING – Quality of life.

Products, services, innovative solutions

Sampling and analysis of drinking water, groundwater, surface water and wastewater, sewage sludge, public baths
Determination of: pharmaceutical residues, drug substances in water (trace levels of organic and inorganic xenobiotics)
QualcoDuna Proficiency Testing Scheme for water testing laboratories in the Danube Region

References

Monitoring of biotas, surface and groundwaters, and wastewater emissions in Hungary in 2015 according to DIRECTIVE 2000/60/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for Community action in the field of water policy, commissioned by the General Directorate of Water Management: Sampling and analyses of more than 1000 water samples for more than 400 parameters/ sample (heavy metals, PAHs, pesticides etc.).
Participating in scientific study: Results of the arsenic content analysis of different water and food samples
Sampling and analyses of samples in groundwater remediation programs; in drinking water quality improvement programs; and drinking, waste and groundwaters as a contract laboratory of waterworks.

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Companies, Institutions, Organisations

Kaposvár Centre of Vocational Training Dráva Völgye Grammar School, Technical Grammar School and Dormitory	Education
Karsai Pécs Ltd.	Water management Sewage water systems
KEVIÉP Construction and Trading Ltd.	Water management Public utility services
KROFTA Water's Technology Ltd.	Water treatment technology Wastewater treatment technology Drinking water
LightTech Ltd.	Water management
Lutz Pumps Ltd	Water treatment technology Equipment manufacturing Drinking water Water management
MEDIKER Ltd.	Environmental protection Equipment manufacturing
METAL-ART Precious Metal Industrial Joint Stock Company	Drinking water Water treatment technology
MOM Plc.	Drinking water Equipment manufacturing
National University of Public Service	Education
ÖKO Co. Ltd.	Water management Consultancy Research and development Flood protection River basin management Sewage water systems
Pál Vásárhelyi Vocational High School in Békéscsaba	Education
ProMinent Hungary Ltd.	Water treatment technology Chemical treatment
PureAqua Llc.	Water treatment facilities Implementation
Pureco Ltd.	Water treatment Drinking water
R&R Software Plc.	Consultancy IT services
Rolling Son Ltd., DELABIE exclusive representation	Water supply systems Equipment manufacturing

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