SOUTH EAST EUROPE WATER UTILITY

REFERENCE BOOK

Romania, Hungary, Bulgaria, Slovenia, Croatia, Serbia, Bosnia and Herzegovina

be
think
innovate

GRUNDFOS

WASTEWATER TREATMENT PLANT

TÂRNĂVENI, MUREȘ, ROMANIA

The program was implemented by the Regional Operator AQUASERV S.A. with European funds and represents the most important investment from Mures County in the field of drinking water and sewerage infrastructure.
The beneficiaries are 300,000 inhabitants, the investment having also a beneficial effect on the protection of the environment by evacuating purified waters according to European standards into the river Târnava Mică.

PUMPS INSTALLED

- SL1 / SLV waste water pumps
- AMG mixers and cranes
- SRP Recirculation Pumps
- DWK wastewater pumps
- Hydro 1000 booster sets
- Magna circulator pumps
- Alfa circulator pumps

GRUNDFOS REMOTE MANAGEMENT SOLUTION FOR CLEAN WATER PUMPING GROUPS

ORADEA, BIHOR, ROMANIA

Between the years 2000 - 2002 The Water works Company of Oradea purchased 78 units of Hydro 2000, clean water pumping groups, equipped with 3 and 4 CRE pumps (power: 2.2 kW, 4.0 kW, 5.5 kW and 7.5 kW).
In 2017 with signed the contract supplying the Grundfos Hydro MPC-E equipment with GRM subscription (Grundfos Remote Management) included for 4 years. This solution will replace of 10 Hydro 2000 control panels.
The GRM (Grundfos Remote Management) is a flexible and viable solution for the monitoring of clean water pumping groups. It works perfectly to an integrated system without SCADA.

PUMPS INSTALLED

- CU 352 controllers
- IO 270 modules
- IO 351B modules
- CIU 501 Ethernet interface units
- CIM 050 modules

INTEGRA, WASTE WATER PUMPING STATION

APAHIDA, CLUJ, ROMANIA

The regional operator Compania de Apă Someș SA asked for an innovative solution to solve an operating issue existing in Apahida area, Cluj county. 10000 inhabitants were affected by the constant problem with a wastewater pumping group was not working properly.

Grundfos proposed the customized pumping station INTEGRA, accepted by the end-user, Compania de Apă Someș, as a new solution, solving the technical problem that affected the inhabitants.

The project was implemented in four days, from delivery to the commissioning and start-up, including also the Dedicated control.

PUMPS INSTALLED

INTEGRA, Pumping station, glass-fiber-reinforced plastic

- Cover, handrail, hatch
- Service platform, ladders, safety grid
- Venting pipe, outlet, inlet
- Pipes, pumps
- Auto coupling
- Screen basket, baffle plate
- Lifting chain
- Pit bottom
- Level switch
- Dedicate control

ALBESTI SEWAGE NETWORKS

BOTOSANI, ROMANIA

Secure your system after sales
SERVICE MAINTENANCE CONTRACT
by signing Grundfos Maintenance Contract

Grundfos Romania delivered a complete solution for sewage networks in Albești, county Botosani. The area is situated in the county of Botosani and consists of six villages, namely Albești, Buimăceni, Jijia Mascateni, Coștiugeni and Tudor Vladimirescu. The total number of Albesti village population is: 7169.

PUMPS INSTALLED

- Prefabricated pumping stations
- S1 submersible sewage pump
- Control panels

SERVICE MAINTENANCE CONTRACT HAS BEEN SIGNED

CERNAVODA WASTEWATER PUMPING STATION

CONSTANTA, ROMANIA

The city hall of Cernavoda needed a pumping station to control the flood and stormwater in Cernavoda and to evacuate them in the Danube - Black Sea. Cernavoda town is a Danube fluvial port, situated where Danube is meeting Danube-Black Sea channel. The total nomber of Cernavoda population is: 16.143.
Grundfos offered the right pumping solution, quality and price for this project.

PUMPS INSTALLED

- S3, SL1 submersible sewage pumps
- CU 361 control unit

ROSIORI WASTEWATER TREATMENT PLANTS

TELEORMAN, ROMANIA

Grundfos has supplied the waste water pumps and disinfection system for the refurbish and extent of the waste water treatment plant serving the city of Risiori with 24.222 inhabitants (Southern Romania).

PUMPS INSTALLED

- S1, EF, SL, SLV, DP submersible sewage pumps
- Screw pump
- AMG mixers

TIMIȘOARA NEW STORMWATER PUMPING STATIONS

TIMIȘ, ROMANIA

Grundfos has supplied a complete solution for stormwater pumping stations in Timisoara. The large prefabricated pumping stations/ GRP are manufactured in Finland and have these dimensions: Ø = 3000mm and H = 6000mm and 5500mm.

PUMPS INSTALLED

- SE1, S2 submersible sewage pumps
- Large prefabricated pumping stations/GRP

MARGHITA WATER SUPPLY SYSTEMS

BIHOR, ROMANIA

Grundfos realized the most reliable and efficient solution for the water supply and wastewater systems demanded by City hall of Marghita. The town is located in the west part of Romania, with a population of 15,134 and requested a modern solution for water utilities.

PUMPS INSTALLED

- SP submersible pump
- Chlorine gas systems, MPC
- SE submersible sewage pump
- Control panel

SLATINA WASTEWATER PUMPING STATION

OLT, ROMANIA

The design of pumps capacity, pumping station and discharge network for this project were made by Grundfos. The technical solution covered all requests received from City hall of Slatina, the capital of Olt county with a total number of population 78.988.

PUMPS INSTALLED

- GRP, PEHD, SLV, SEG submersible sewage pumps
- Control panels

BOTEAN FLOOD CONTROL PUMPING STATIONS

BIHOR, ROMANIA

National Agency for Land Improvements requested a complete technical solution for flood control dedicated to the town Botean, in county Bihor.
Grundfos solution covered all technical requests of the end user including 4 HS pumps with a total capacity 4800m3/h and control panels.

PUMPS INSTALLED

- horizontal splitcase pumps HS

CRAIOVA WASTEWATER TREATMENT PLANT

OLT, ROMANIA

Grundfos solution for Compania de Apa Olt was the reliable choice for the wastewater treatment plant.
The energy-efficient fine bubble diffusers of the aeration system together with the mixers and flowmakers keep the processes moving at lower cost for wastewater treatment.

PUMPS INSTALLED

- aeration systems, mixers and flowmakers

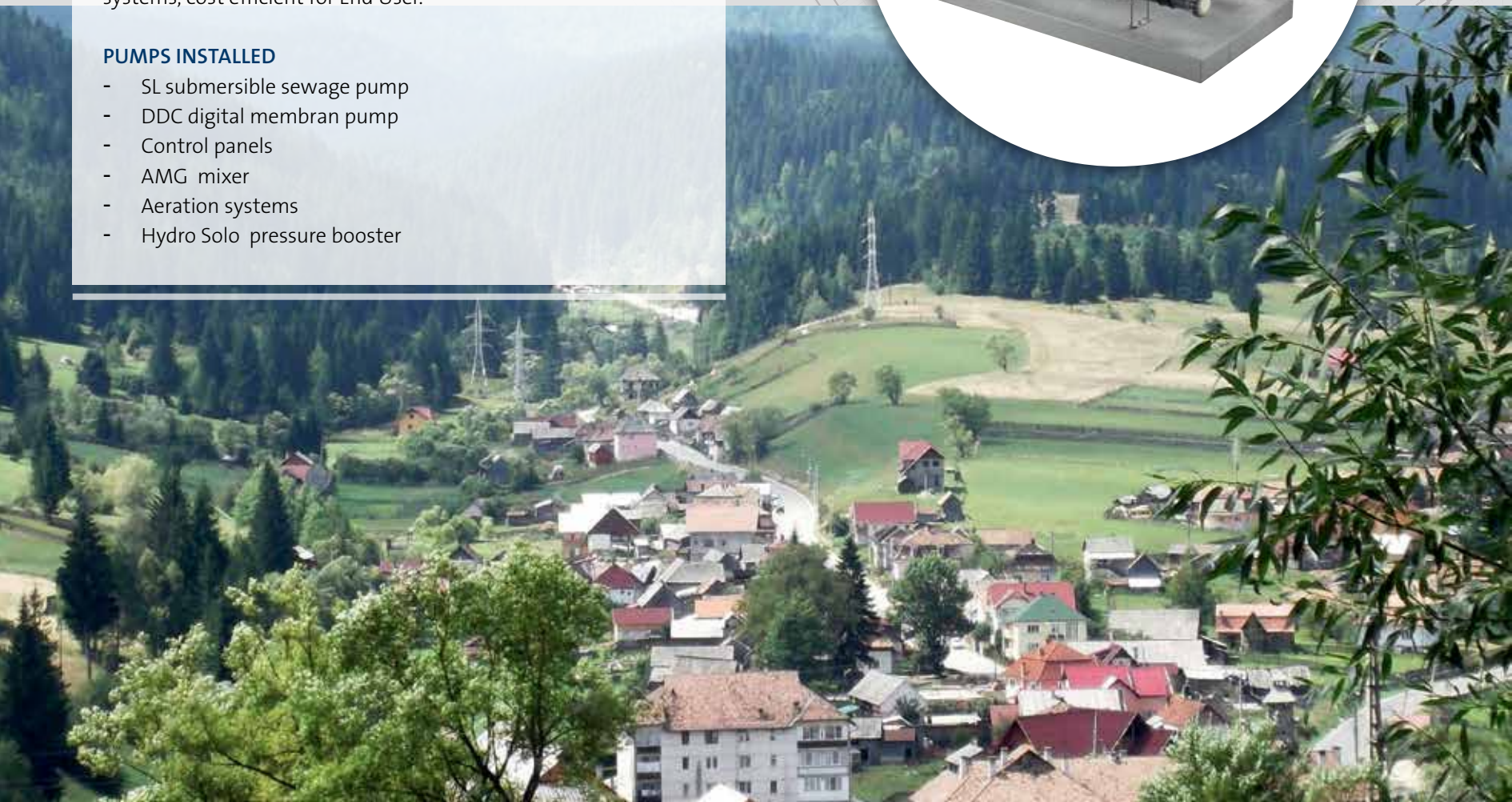
BORSEC WATEWATER NETWORK AND TREATMENT PLANT

HARGHITA, ROMANIA

Borsec town needed a complete solution for Wastewater Network and Wastewater Treatment. Grundfos offered the right technical systems, cost efficient for End User.

PUMPS INSTALLED

- SL submersible sewage pump
- DDC digital membran pump
- Control panels
- AMG mixer
- Aeration systems
- Hydro Solo pressure booster



HUSI WATER TREATMENT PLANT

VASLUI, ROMANIA

Grundfos Romania supplied the complete pumping solutions, also installed all pumps and mounted the hydraulic system for this project. Raw water pumping station: capacity of the system: 2 x 1080 m³/h. Pumping station for the treatment plant: capacity of the system: 1080 m³/h for distribution and 2400m³/h. Pumping station for high level area of the city: capacity of the system: 720 m³/h.

PUMPS INSTALLED

- NB, NK norm pump
- Vacuum pump
- Control panels

NEDEIA MACESU IRRIGATION SYSTEM

DOLJ, ROMANIA

Grundfos offered a customised pumping solution for an irrigation system on area Nedeia Macesu, county of Dolj: 6 KPL pumps, each of 400 Kw, with the total capacity of the station 66000 m3/h will be installed on floating pump stations on Danube.

PUMPS INSTALLED

- KPL submersible propeller pump

ALEXANDRIA NEW WATER SUPPLY SYSTEM

TELEORMAN, ROMANIA

Grundfos supplies, installs and commissions the entire project for a new water supply system necessary in city of Alexandria with 60,000 inhabitants and located in Southern Romania.
The project includes: Rehabilitation of 120 wells and a pumping station, New pumping station, SCADA system, 2 big chlorination plants.

PUMPS INSTALLED

- NK norm pump
- CR centrifugal pump
- SCADA system
- Chlorination plants

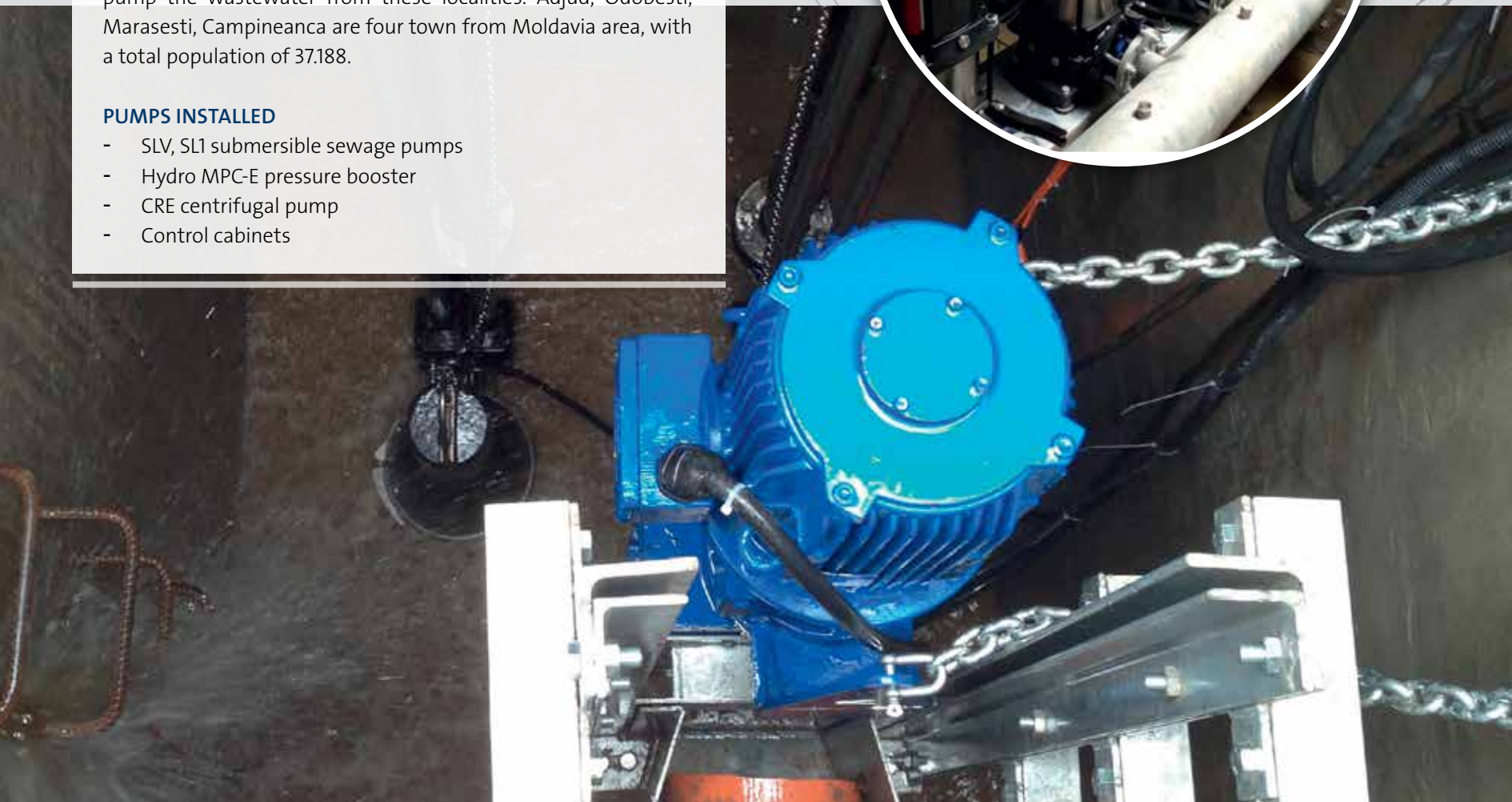
VRANCEA WASTE WATER AND DRINKING WATER PUMPING STATION

VRANCEA, ROMANIA

Grundfos has delivered a complete technical solution which covered the request of drinking water and which managed to pump the wastewater from these localities. Adjud, Odobesti, Marasesti, Campineanca are four town from Moldavia area, with a total population of 37.188.

PUMPS INSTALLED

- SLV, SL1 submersible sewage pumps
- Hydro MPC-E pressure booster
- CRE centrifugal pump
- Control cabinets



FOCSANI WASTE WATER AND DRINKING WATER PUMPING STATION

VRANCEA, ROMANIA

Grundfos has supplied the pumping stations for drinking water and wastewater requested by the Municipal Water Company of Focsani, to cover the localities Golești, Mândrești, Homocea and Panciu. The villages are part of Vrancea county, with a total number of population 14995.

PUMPS INSTALLED

- SLV, SL1 submersible sewage pumps

ARAD WASTE WATER PUMPING STATIONS

ARAD, ROMANIA

The Municipal Water company of Arad is responsible for water network of the city. The customer asked a reliable solution for a waste water pumping station covering the needs of a district and Grundfos has provided the optimal solution with SE pumps.
Arad has a population of 159,704, making it the 12th largest city in Romania.

PUMPS INSTALLED

- SE, DN submersible sewage pumps
- Lifting chain hotdip galvanized lifting

BACAU WASTEWATER TREATMENT PLANT

BACAU, ROMANIA

Municipal Water Company Bacau, responsible for water supply and waste water network in Bacau have chosen Grundfos Waste Water Treatment solution for covering demands of Bacau city with population of 144307 inhabitants.

PUMPS INSTALLED

- POLYDOS polyelectrolite solution preparation system
- SEV submersible sewage pump

PETROȘANI WASTEWATER TREATMENT PLANT EXTENSION

HUNEDOARA, ROMANIA

The enduser is the ApaServ Valea Jiului, the Water Company who manages the water supply and waste water network for more cities of Hunedoara county. Grundfos offered a solution that covered all customer's expectations for Waste Water and Dosing for the extension of Danutoni Waste Water Treatment Plant. The plant cover two cities, Petroșani și Aninoasa, with a population of 38.890.

PUMPS INSTALLED

- SEG sewage grinder pump
- SL/SLV submersible sewage pump
- Mixers
- POLYDOS polyelectrolite solution preparation system
- DDI digital membran pump

AGIGEA CONTROL OF WATER LEVEL IN FLOODGATES OF A COMMERCIAL PORT

CONSTANTA, ROMANIA

The Grundfos pumps SPG with SLEEVE have been installed to control the water level in floodgates of the commercial port Agigea-Constanta one of the most important ports from Black Sea area, with a large industrial platform.

PUMPS INSTALLED

- SPG with sleeve submersible pump

GIURGIU WASTEWATER PUMPING STATIONS

GIURGIU, ROMANIA

Grundfos offered 4 complete customised Wastewater Pumping Stations for the Municipal water company ApaServ of Giurgiu. 12 waste water pumps S1/SEV/SE were delivered together with 4 Dedicated controls with CU361 and CU362. Giurgiu has 61.300 inhabitants and is situated amid mud-flats and marshes on the left bank of the Danube facing the Bulgarian city of Ruse on the opposite bank.

PUMPS INSTALLED

- S1, SEV, SE1 submersible sewage pumps
- CU361, CU 362 Control units

BRAILA EXTEND OF NETWORKS FOR DRINKING WATER AND WASTEWATER

BRAILA, ROMANIA

The enduser is the Municipal Water Company Dunarea Braila who handles with the water supply and waste water networks in Braila county.
The Grundfos pumps supplied cover the request of 3 localities in Braila County: Ianca, Tufesti, Viziru, with a total number of population 21475.

PUMPS INSTALLED

- SE1, S1, SEV, SL submersible sewage pumps
- NK norm pumps
- Macerators

GALAȚI WASTEWATER PUMPING STATIONS

GALAȚI, ROMANIA

The end user, the Municipal water company Apa Canal Galati highlighted the efficiency of the technical solution and the customized project made by Grundfos exceed the customer's expectations. The contracting company had a strong support from Grundfos engineers and the building site ran faster than in planning.

PUMPS INSTALLED

- Prefabricated GRP pumping station
- Dedicated controls full customized
- SL, S2 submersible sewage pumps

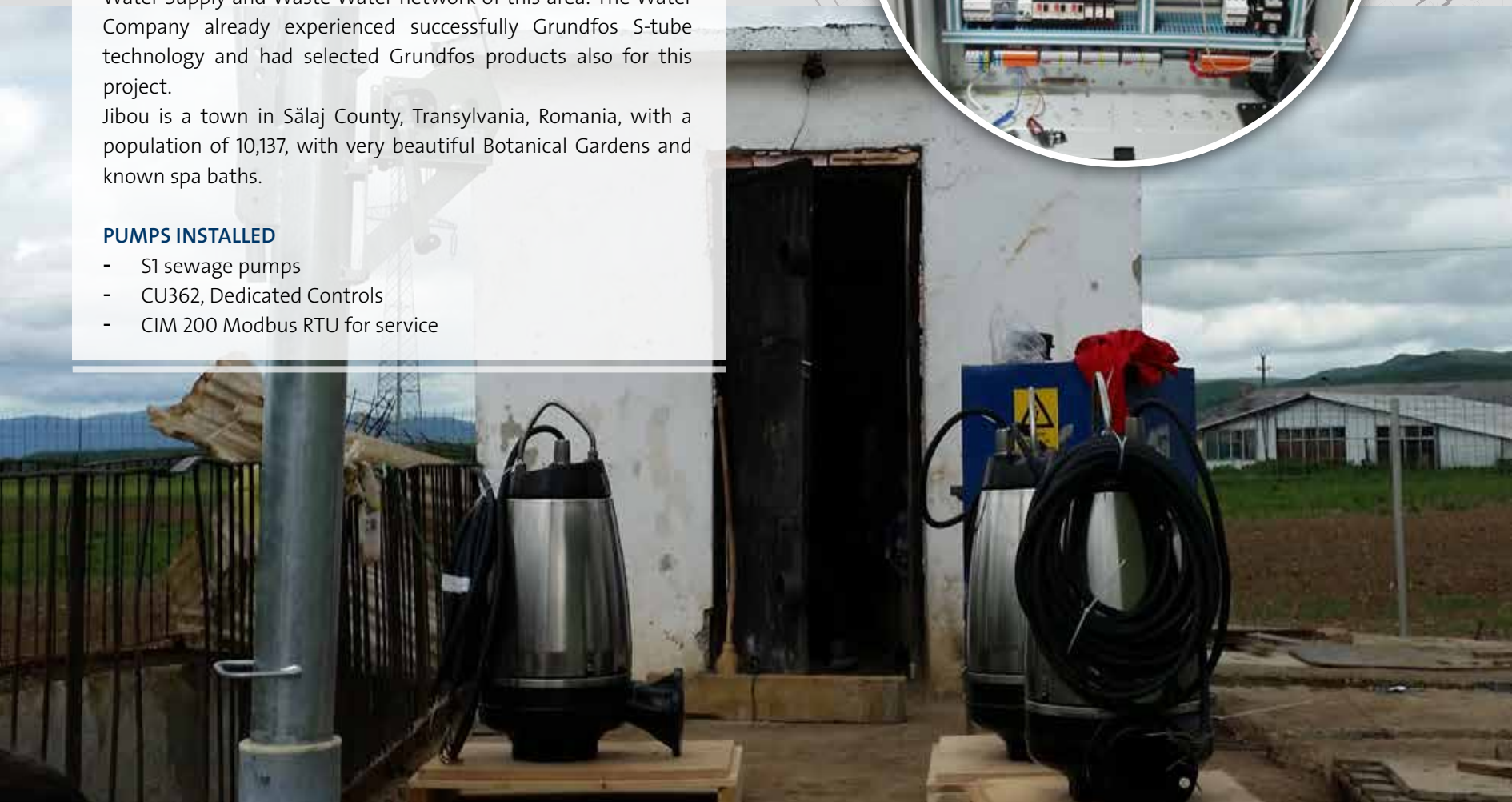
WASTE WATER PUMPING STATION

JIBOU, ZALĂU, ROMANIA

The Municipal Water Company Somes, one of the largest companies from Romania within water market, manages the Water Supply and Waste Water network of this area. The Water Company already experienced successfully Grundfos S-tube technology and had selected Grundfos products also for this project.
Jibou is a town in Sălaj County, Transylvania, Romania, with a population of 10,137, with very beautiful Botanical Gardens and known spa baths.

PUMPS INSTALLED

- S1 sewage pumps
- CU362, Dedicated Controls
- CIM 200 Modbus RTU for service



REFURBISHMENT PROJECT OF WASTE WATER TREATMENT PLANT

VALEA CU PEȘTI, HUNEDOARA, ROMANIA

The Municipal Water Company Apa Serv Valea Jiului announced the refurbishment project of waste water treatment plant from Valea cu Pesti. Grundfos submited an offer for the full solution to the end-user, highlighting the efficient Grundfos technology. Our technical approach covered customer's demands and impressed by long term savings that can be made.

PUMPS INSTALLED

- NK, NB pumps
- Hydro MPC-S with CRIE pumps
- EF pumps
- AMG Mixers

WATER SUPPLY AND SEWAGE NETWORK DIMITROVGRAD

DIMITROVGRAD, BULGARIA

VIK Dimitrovgrad offers services in water supply sewage and water treatment. After an energy efficiency research for pumping station „Lyav bryag" owned by Vik Dimitrovgrad, the company purchased and isntalled Grundfos pumping aggregate with electronic speed control.

PUMPS INSTALLED

- CRE 11 kW with electronic speed control centrifugal pump

KUBRATOVO LARGEST TREATMENT PLANT ON BALKAN

KUBRATOVO, BULGARIA

The rehabilitation and expansion project for the wastewater treatment plant “Kubratovo”, a part of “Integrated project for the water sector in Sofia” carried out by “Sofiyska voda”, started due to two main reasons, both related[] to Bulgaria’s entry in the EU “As a member state of the EU, Bulgaria is obliged to comply to the European directive, which states that the wastewater of big cities must have specific properties.Additionally the country must have a maximal percentage of its population attached to a sewage system.

PUMPS INSTALLED

- S2, S3, Unilift, SE1 submersible sewage pumps
- AMD, AMG mixers
- SP submersible pump
- DME digital membran pump

WATER SUPPLY AND SEWERAGE NETWORK BURGAS

BURGAS, BULGARIA

VIK-Burgas provides continuous water supply to the population and the companies in the district of Burgas. The company is responsible for the maintenence and expansion of the sewage network for discharge of all waste and rainwaters in all resorts along the Black Sea coast for environmental protection of the sea.

PUMPS INSTALLED

- CR centrifugal pump
- NB norm pump
- S1, SV submersible sewage pumps

HIGH EFFICIENCY SOLUTION FOR STAMBOLIYSKI WWTP

STAMBOLIYSKI, BULGARIA

The Stamboliyski municipality is located in southern Bulgaria, close to the Marica River. The company had a budget from EU funds for the reconstruction of the wastewater network and construction of the wastewater treatment plant.
Grundfos has supplied optimised technical solution for the wastewater treatment plant including pumps, controls, mixers, aeration system and dosing systems.

PUMPS INSTALLED

- SE1 wastewater pumps with S-tube
- AeroJet aerator
- SLV wasterwater pumps
- AMG mixers
- Dedicated Controls
- Aeration system
- Dosing systems

WASTEWATER PUMPING STATIONS KSAMIL AND SHENGJIN

KSAMIL, SHENGJIN, ALBANIA

The objective of the project was to improve water and wastewater infrastructures in Albania which are in very bad conditions. The Government of Albania has financed the construction and rehabilitation of an adequate and sustainable sewerage and treatment of waste water infrastructures.

PUMPS INSTALLED

- S pump
- Dedicated control

KOSTOLAC MINE, DEWATERING

KOSTOLAC, SERBIA

Mining Company "TE-KO Kostolac" is important strategic partner for Grundfos in mining industry in Serbia. Grundfos has more than 350 pcs of SP pumps installed in Kostolac. This particular project included supply of 66 SP pumps (rated power 0.55 - 18.5 kW) for 66 lines of wells with supply cables average length about 120 m and additional equipment according to request in tender specification.

PUMPS INSTALLED

- SP submersible pumps

KOLUBARA MINING

KOLUBARA, SERBIA

Surface mine „Tamnava - West Field" is part of mine „Kolubara" d.o.o. This mine produces about 13 million tons of cole per year. In addition to the basic requirements, Grundfos has provided the following: groundwater level control, enhanced protection of pumps, easy to use and robust system that allows the different control methods, solution - turnkey system (pump + control cabinet + SCADA), pre-tested and approved.

PUMPS INSTALLED

- SP submersible pumps

LESKOVAC WASTEWATER TREATMENT PLANT

LESKOVAC, SERBIA

The biggest project till now on East Balkan region WWTP Leskovac. Wastewater treatment plant will have a capacity of 100,000 PE, with a peak hydraulic loading of 800 l/s.

PUMPS INSTALLED

- S, SLV, Unilift AP submersible sewage pumps
- AMG, AFG mixers
- SRP recirculation pump
- HYDRO MPC-E pressure booster

KRAGUJEVAC WASTEWATER TREATMENT PLANT

KRAGUJEVAC, SERBIA

FIAT Automobili Srbija doo joint venture based in Kragujevac , part of the FIAT Group and is the largest automobile manufacturing plant in the Balkans.
Protection of the environment in addition to a successful business and one of the top priorities of this plant, so it was necessary to reconstruct the existing waste water treatment plant (WWTP).

PUMPS INSTALLED

- SE1, EF30, SL1 submersible sewage pumps
- NB norm pump
- mixers
- DDI digital membran pump

SUBOTICA WASTEWATER TREATMENT PLANT

SUBOTICA, SERBIA

The project of rehabilitation and expansion of facilities for waste water treatment was initiated in order to improve the environment and reduce the pollution of Lake Palic. The new facility has three times bigger capacity (in the rainy season and twice as much), and the quality of treated water that comes from the plant in accordance with the EU regulations.

PUMPS INSTALLED

- SE, AP submersible sewage pumps
- SRP recirculation pump
- POLYDOS solution preparation systemt

KRNJACA WASTEWATER PUMPING STATION

KRNJACA, SERBIA

Located on the left bank of Danube river few miles on southeast of Capital Belgrade, Krnjaca sewage pumping station is the primary facility of Northern Serbia's independent Banat sewage system. Waste water from the nearby superb municipalities, collected here would be elevated and directed towards gravity collector located beneath the Belgrade Pancevo motorway and eventually into the Danube.

PUMPS INSTALLED

- S submersible sewage pump

AGRICULTURAL COMPANY ZLATICA IRRIGATION OF CROPS

AGRICULTURAL COMPANY ZLATICA, SERBIA

Lazarevo is a village located in the Zrenjanin municipality, in the Central Banat District of Serbia.The Agricultural company Zlatica Lazarevo has decided to invest in a new irrigation system. Grundfos with its good reputation of very good quality pumps for such application has won this project. Irrigation is the artificial application of water to the land or soil. It is used to assist in the growing of agricultural crops, maintenance of landscapes, and revegetation of disturbed soils in dry areas and during periods of inadequate rainfall.

PUMPS INSTALLED

- NB norm pump
- CUE frequency converter

BIGGEST IRRIGATION PROJECT IN SERBIA

PREKA I SIROKA BARA, SABAC, SERBIA

For this project Grundfos has delivered 6 submersible propeller pumps (KPL), with a total installed capacity of 435 kW, which together provide 6.4 m3 of water per second. Construction of this pumping station provides irrigation for 500- 600 ha, with channel length of 10 km. Besides commissioning, Grundfos has done part of the system installation and also delivered additional equipment, such as column pipes and protection grids.

PUMPS INSTALLED

- KPL

https://youtu.be/gbw1jOhsxfg

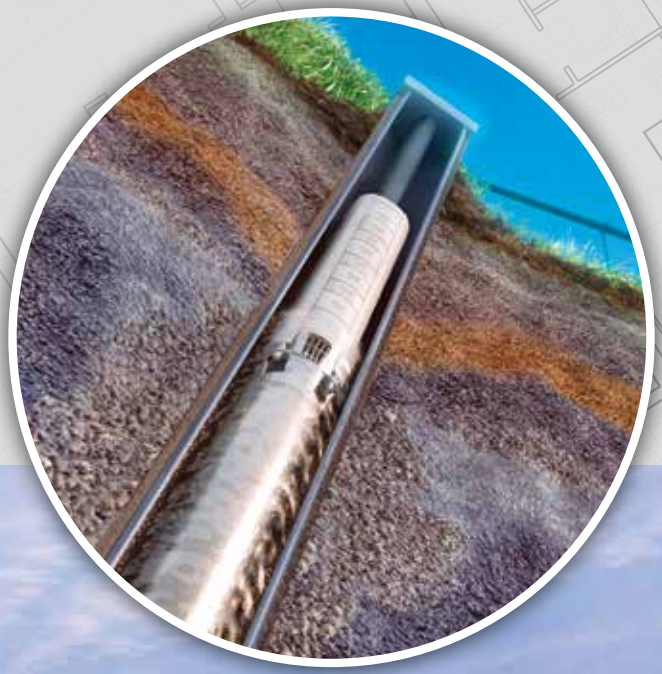
BELGRADE WATERFRONT

SERBIA

Grundfos delivered 130 SP 5.5kw, 20 l/s submersible pumps for lowering ground water at the construction site of one of the largest projects in Serbia – BELGRADE WATERFRONT.
In the first phase of project all 130 pumps are operating for two years now, 24 hours a day, and 365 days a year.

PUMPS INSTALLED

- SP



BIOGRAD NA MORU SEWAGE SYSTEM

BIOGRAD NA MORU, CROATIA

Development of the sewage system in the Biograd na Moru, the touristic city with 6000 inhabitants is situated on the middle Adriatic coatline.
Grundfos has supplied 6 pumping stations to the city of Bioagrad na Moru.

PUMPS INSTALLED

- S1, SV submersible sewage pumps

OPATOVAC IRRIGATION PLANT

OPATOVAC, CROATIA

One of the pilot projects of the Croatian National Irrigation Project - Flood control and irrigation of 705 ha of agriculture area in Eastern Croatia.
Grundfos has won this project with its good reputation and was able to supply pumping station for the irrigation plant in Opatovac.

PUMPS INSTALLED

- S2 submersible sewage pumps
- MPC EF Control

LOGISTIC CENTER

JASTREBARSKO, CROATIA

Jastrebarsko is a small town half way between Zagreb and Karlovac, half way between urban and rural country. In Jastrebarsko, Kaufland officially opened a big logistic center. More than 150 people found their future jobhere and this investment helps a lot in further raise the standard of the city . The project was a Croatian-Germany business cooperation.

PUMPS INSTALLED

- S3 submersible sewage pump
- SEV65 submersible sewage pump
- LCD108 control unit
- UNILIFT KP dewatering pump
- Hydro MPC pressure booster
- Control DC

ŽIVINICE WASTEWATER TREATMENT PLANT

ŽIVINICE, BOSNIA AND HERZEGOVINA

The city of Zivinice needed a good and reliable treatment plant. The town which has the population of 30.000 people is situated in the easter part of Bosnia & Herzegovina. Grundfos was able to convince investors and contractors to use our water treatment solutions.

PUMPS INSTALLED

- mixers
- AMG, AFG mixers
- DME digital membran pump
- SEG, SLV submersible sewage pump
- SRP recirculation pump
- CR centrifugal pump

FIELD IRRIGATION GYULA

HUNGARY

The Water Management Directorate of Kőrös took over a watering task from an other water company in the region.
For the task, 7 KJI propeller pumps were purchased, which were installed at 3 sites.
The installed pumps provide irrigation to local farmers.

PUMPS INSTALLED

- KJI- propeller pumps

ÓBALLA PENSTOCK

HUNGARY

Company Közép-Tiszavidéki Vízügyi Igazgatóság is preparing to restore the flood plain of river Tisza.
KJI propeller pumps will be installed to the sluice with Dedicated Control.

PUMPS INSTALLED

- KJI propeller pumps

MARÓTVÖLGY PUMPING STATION RECONSTRUCTION

HUNGARY

Reconstruction of the Főnyedi pumping station in the operational area of the West Transdanubian Water Directorate. The task was inland water discharging of the Kis-Balaton region. Existing Xylem pumps have been replaced by Grundfos equipment.
After technical installation it has been operated continuously for 3 months for the overflow of accumulated inland water.

PRODUCTS INSTALLED

- SL 2.110.250.200
- SL 1.125.125.4.50

SZEGED WELL RECONSTRUCTION

SZEGED, HUNGARY

In 2008 the Waterworks of Szeged started a well reconstruction programme which was carried out in several stages. During this procedure Grundfos SP 77, SP 95 and SP 125 submersible pumps optimized for high efficiency and Danfoss frequency converter were installed.

PUMPS INSTALLED

- SP submersible pump

SZEGED WASTEWATER TREATMENT PLANT

SZEGED, HUNGARY

In 2004 in the frame of Cohesion Fund, previously known as ISPA project, titled as Szeged Regional Waste Management Project (which was established in order to solve the waste management problems in Szeged and the 32 surrounding communities) the reconstruction of the sewage works in Szeged Gyálarét was started.To deliver the great amount of rainwater into Tisza during the time of high precipitation high capacity Grundfos S4 wet-pit pumps were installed.

PUMPS INSTALLED

- S4 submersible sewage pump

BUDAPEST CAPITAL WATERWORKS

BUDAPEST, HUNGARY

In Budapest on the Liberty Hill, close to the Normafa, one of the works of Szilárd Zielenszky can be found, this is the water tower memorial built in 1913 in Eötvös Street, which is now a pressure intensifying engine house. This place supplies water to the highest points of Budapest where the densely populated residential area needs special service.Grundfos delivered two sets of pressure intensifying units in 2011.

PUMPS INSTALLED

- Hydro MPC pressure booster

HEVES COUNTY WATERWORKS CO.

HEVES COUNTY, HUNGARY

At the beginning of year 2008 Grundfos Hungary Ltd. launched an energy efficiency campaign throughout the country for the inspection and the possible replacement of the pumps. We made calculations on the water supplying pump systems on the site of the Waterworks Co., Heves County. There are altogether 437 operating pumps, out of which 186 pumps are well pumps and 251 pumps are lifting stations. After an overall analysis we offered tube shaped submersible pumps (SP,SP-G) with vertical shaft, multi-stage (CR) and block (NK) pressure intensifying pumps. Our client replaced 118 pumps which cleared the costs within a year.

PUMPS INSTALLED

- SP, SP-G submersible pumps
- CR centrifual pump
- NK norm pump

PAKS INLAND WATER PUMPING

PAKS, HUNGARY

Four pumps with high capacity have been installed in Paks at the Páli Dike and the sluice at the end of Árok Street.
When the water level of the Danube exceeds a certain level and creates flood the sluice which protects the town is closed. If the rainfall increases during this time, the inland water has to be carried to the river by lifting stations.

PUMPS INSTALLED

- S3 submersible sewage pumps S

ISPA KECSKEMÉT

HUNGARY

The improvement of the sewage system and the cleaning system of the agglomeration of Kecskemét was carried out in the frame of EU ISPA / Cohesion Fund Project. 278.5 km long sewage system was built which connected the houses and the different communities in Kecskemét and its agglomeration (Kerekegyháza, Ballószög and Helvécia). We took part in the project as subcontractors and installed 24 district lifting stations and 375 domestic lifting stations altogether.

PUMPS INSTALLED

- domestic lifting stations

SOPRON WATERWORKS

SOPRON, HUNGARY

Due to the diversified geographical conditions the water supply system of Sopron and its surroundings is divided into several pressure zones. The territories are supplied by pressure intensifying engine house of which several have been renewed recently.

In the course of the reconstruction work of the engine house in Villa Way and the engine house of the Main Site, due to the technical parameters and solutions, Grundfos pumps were chosen. The units contain control cabinets and frequency converters as well.

PUMPS INSTALLED

- CR centrifugal pump
- HYDRO 2000 pressure booster

SOPRON

HUNGARY

The Sopron Regional Sewage and Drainage Programme supported by the ISPA programme of the European Union was carried out between 2004 and 2009. In this framework the drainage system and the sewage works were improved. New areas were connected to the system of Sopron and the capacity of the sewage works was increased.
The current 21.000 m3/day will be enough for a long time. Certain parts of the project were carried out by Grundfos Hungary.

PUMPS INSTALLED

- AP50B, SEV S1, S2 submersible sewage pumps
- SEG40 sewage grinder pump

BUDAPEST THE FERENCVÁROS STORMWATER PUMPING STATION

BUDAPEST, HUNGARY

A reconstruction and capacity increase was necessary at the Ferencváros Pumping Station in connection with the construction works at the Budapest Central Wastewater Treatment Plant. If conditions are dry, 200,000 cubic meters of wastewater is pumped per day to the Budapest Central WT P. However, the combined wastewater system means that in the event of rain, stormwater had to be pumped directly into the Danube River.

PUMPS INSTALLED

- KPL submersible propeller pump

IMPROVING WATER QUALITY IN THE NORTH LOWLAND

HUNGARY

After Hungary joined the EU in 2004 we had to comply with several EU regulations and apply them after a given time determined by deadline. Such a directive is the 98 / 83 EK EU directive which formed the decree of 201/2001 in Hungary. This regulates the quality of our drinking water.

In order to comply with these limit values, especially in the lowland areas, different solutions had to be created and that is why programmes for improving water quality were initiated in the North and South Lowland of Hungary.

PUMPS INSTALLED

- Hydro MPC pressure booster

BALATONFENYVES INLAND WATER PUMPING

BALATONFENYVES, HUNGARY

Balaton-Nagyberek Water company announced a tender for refurbishment project of an inland water pumping station. The request was for capacity to pump 6m3/s with 3 pumps. Grundfos decided to submit an offer for the full solution to the end-user in order to differentiate the quotation from traditional competitors and being able to demonstrate value creation to the beneficiary. The solution was covering techncial parameters calculations, reconstruction of pipes and inlet, KJI pumps, controls, frequency drives, start-up and commissioning.

PUMPS INSTALLED

- KPL submersible propeller pumps

ÉRD SEWAGE

ÉRD, HUNGARY

The city of Erd has issued a tender about enlarging the sewage network including 62 pcs of new pumping stations and 21 pcs of pumping stations refurbishments and the control systems as well. Grundfos team targeted the full tender and managed to won as full solution provider the whole 83 pcs of pumping stations supply and also the installation of the control system with Grundfos Dedicated Controls units.
The project includes installation of Smart bottom which is a self cleaning pit bottom. Grundfod Smart bottom was prepered over Flygt solution with flushing valves.

PUMPS INSTALLED

- SEG submersible grinder pump
- SLV, S1, S2 submersible sewage pumps

KÖRÖSLADÁNY
ENLARGEMENT OF WWTP

KÖRÖSLADÁNY, HUNGARY

Körösladány is situated in the south-east part of Hungary. The city was in need of the enlargement of the wastewater treatment plant. Grundfos was able to provide the necessary systems and in the frame of KEOP -1.2.0 project the wastewater treatment plant was enlarged.

PUMPS INSTALLED

- SL1, SLV submersible sewage pumps

TATABÁNYA XV/C WATERMINE (OROSZLÁNY DIRECTION BRANCH)

TATABÁNYA, HUNGARY

A reconstruction and capacity increase was necessary at the XV/C watermine in Tatabánya.
The primary objective was to temporary dewatering of the mine pit and decrease the karst water level.

PUMPS INSTALLED

- HS centrifugal pump

IRRIGATION PLANT

KOMÁROM, HUNGARY

Komárom is situated on the eastern edge of Kisalföld, on the right bank of the river Danube. Road and rail bridge is connecting the city to the Slovakian Komárom.

In the frame of European Agricultural Fund for Rural Development (EAFRD) Komáromi Agricultural Production and Services Ltd. has won funds to develope irrigation plant in the nearby settlements. Investment in irrigation plant is divided into –I-II stages. The Company. in addition to its agricultural areas also gives opportunities for individual farmers' irrigation, thereby increasing the quantity and safety of the crop.

PUMPS INSTALLED

- SP, SPG, NK, CUE

REDUCING THE RISK OF WATER DAMAGE

PAKS, HUNGARY

The aim of the project is to collect rainwater from the cathcment and transfer it directly to river Danube through a 2000 mm diameter gravity line. Together with the sluice inland lifting stations were installed .

When closing the sluice the lifting stations start working and the rainwater coming through the sewage system will be pushed to the river Danube saving the lower part of Paks from the damage of rainwater.

PUMPS INSTALLED

- KSN sewage pump

WATER TREATMENT PLANT IN VIETNAM

QUANG BINH, VIETNAM

In Quang Binh province, Central Vietnam a water treatment plant was completed. The plant was built on the river Roa Nan and the capacity is 10.000 m3/day. . Financing of the investment was done by Exim Bank (Hungary) and Finance Ministry of Vietnam. The main contractor was Vietnam Hidroproject Kft. and Hungarian Water Cluster.

PUMPS INSTALLED

- S1 submersible sewage pumps
- CR centrifugal pump
- NB, NK norm pumps
- Control MPC
- CUE
- Polydos polyelectrolite solution preparation system
- DDA dosing pump
- KD

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