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SLOVAKIA

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COMPANY PROFILE

WE BRING WATER TO LIFE!

Managementsystem zertifiziert nach EN ISO 9001



Valid from: 13.03.2015



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HISTORY

Success with tradition

Tradition and history together with innovational ideas are the springboard for a successful future.

The history of the company ÖSTAP has started already in 1946, when senator Friedrich Östreicher founded the ÖSTAP Ing. Östreicher & CO GmbH. In 1972 today's company ÖSTAP GmbH was founded and is guided by DI Christoph Gierlinger since 2000. In the year of 2005 DI Christoph Gierlinger became sole owner.

In the last decades various projects could be realised and business fields were expanded



within the home market in Austria but also in Croatia, Bosnia and Herzegovina, Macedonia, Albania, Kosovo and other Eastern countries.

In 2007 the takeover of the consultant engineer office Leisser and two years later the takover of the consultant engineer office Redl took place. These acquisitions have led to an increased market share in Austria.

Our main corporate principle is quality and to ensure a high quality standard to our clients, we decided in 2009 the application for the certification according to the quality management norm EN ISO 9001:2008. In the year 2010 ÖSTAP GmbH passed the certification audit with excellence.

We are happy looking to our success history in the past, but we also are looking forward to the future and new challenges which will come with.

MILESTONES		
1945	Foundation of the company as Ing. Östreicher & Co. GmbH	
1971	Change of company name into ÖSTAP GmbH	
2000	DI Gierlinger as new managing director	
2005	Takeover of the company by DI Gierlinger	
2008	Takeover of the consultant engineer office Leisser	
2009	Takeover of the consultant engineer office Redl	
2010	Certification according to ISO 9001:2008	



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BUSINESS FIELDS

We keep busy with all areas of water, sewage and waste management:

Water supply systems Sewage treatment plants Sewage disposal - Sewer systems Industrial waste water Sewer restoration Surface dewatering Flood protection Waste disposal and management

Road construction

ÖSTAP is able to offer you the following services:

Engineering - Consulting - Designing

Project management

Tendering

Handling of subsidies and financing

Local construction supervision

Analysis of water and sewage





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L Technisches Büro – Ingenieurbüro – Umwelt Wasser und Abwassertechnik



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WATER SUPPLY

Water is the most important source of life. ÖSTAP offers all solutions for the supply of high quality drinking water. A long time experience in designing water supply systems, drinking water treatment plants and water extraction facilities turns us into a reliable partner in all questions of the high quality product "drinking water". We can offer a wide range of quality control and monitoring in all fields of water supply.

Key aspects of services:



- Water supply system (local and national)
- Water supply reservoirs
- Water extraction facilities
- Drinking water treatment plants
- Pumping tests with qualitative and quantitative classification
- Calculation of existing water pipe systems
- Technical inspection according to § 134 of Austrian federal water act







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WATER SUPPLY

REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT	
Municipality HARDEGG	Bank filtration - river Thaya Installation of a filter face with approx. 100 m ² and connection to the existing collector well. submission designing, tendering, local construction supervision, handling of govern- ment aid	
Municipality HARDEGG	Transmission pipeline Hardegg-Merkersdorf (ring closure) Connection centre of national park: Installation of a transmission pipeline pipe diameter 150 interborough Hardegg and Merkersdorf with a length of 3400 lfm as connection to the transmission pipeline Pleis- sing- Merkersdorf. submission and detail designing, tendering, local construction supervision, handling of government aid, final approval	
Municipality HARDEGG	Extension water supply facility in cadastral municipality Mallersbach und Riegersburg Overall length 3050 m submission designing, tender, local construction supervision, handling of government aid, final approval	
Municipality LITSCHAU	Extension water extraction by 4 new bore wells 2 wells every with 12 m depth, 2 wells every with 33 m depth bonding in the existing installation. submission and detail designing, tendering, local construction supervision, final appro- val	
Municipality LITSCHAU	Local water supply cadastral municipality Hörmanns 07 phase of construction Designing of water supply lines for the village Hörmanns. Connection to the water supply system of the municipality Litschau. Transmission pipeline 1.400 m pipe diameter 125 Local linenetwork 1.550 m pipe diameter 80 -100 submission and detail designing, tendering, local construction supervision, designing and construction management, handling of government aid, final approval	
Municipality GASTERN	Local network and Transmission pipeline Gastern and Frühwärts 01 phase of construction Overall approx. 10.000 m transmission and local water pipelines incl. 250 private connections. submission and detail designing, tendering, local construction supervision, construction management, final approval, handling of government aid	
Municipality GASTERN	Local network and Transmission pipeline Kleinzwettl 03 phase of construction Overall ca. 2.200 m transmission and local water pipelines incl. 43 private connections. submission and detail designing, tendering, local construction supervision, construction management, final approval, handling of government aid	
Municipality SCHRATTENTHAL	Designing and preservation of evidence Manhartsberger Jungbrunnen Including investigations of variants of different solutions for the best bonding in the existing system. Preliminary inspection according to § 104 Austrian water act. Effected negotiations with the competent authorities, monitoring of test- and investigationopera- tion, test result interpretation	
Municipality MÖNCHHOF	Extension location Kreuzjoch Overall length 4.200 m, incl. 3.500 m transmission pipeline pipe diameter 150 - 200 submission designing, tendering, local construction supervision, final approval, hand- ling of subsidy	
Municipality PÖCHLARN	New pump station with sterilisation- und telecontrol installation submission designing, tendering, local construction supervision, handling of govern- ment aid, approval	
Ecoplus GmbH	New calculation of the network and submission according to the water act, for economy park Wiener Neudorf Survey, new calculation of the network, submission	



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WATER SUPPLY

REFERENCES:

Municipality HARDEGG:

The municipality of Hardegg is located in the north of Lower Austria near the Czech border. It is a very sensitive area in the middle of the national park Thayatal, one of the most beautiful areas in Austria and worthy of protection. Therefore the municipality is proud to have highest possible environmental standards.





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Length of supply system: Fields of responsibility:

Water extraction:

Water treatment:

Water storage:

Supported Villages:

Total amount of water per year:



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35 km

Concept design for the whole municipality, detail design, tendering, local construction supervision and construction management, final approval and handling of subsidy. 30 l/s Bank filtration of the river Thaya Demanganing and deironing filter neutralisation Sterilisation 1 reservoir V = 1000 m³ 1 reservoir V = 400 m³ Hardegg, Pleissing, Waschbach, Heufurth, Riegersburg, Mallersbach, Felling, Niederfladnitz Weitersfeld, Oberfladnitz, Hofern approx. 140,000 m3







L Technisches Büro – Ingenieurbüro – Umwelt Wasser und Abwassertechnik

SEWAGE TREATMENT

Sewage systems and wastewater treatment have been two of the core competences of our work during the last 50 years. Therefore ÖSTAP has a wide ranged experience in all tasks of sewage treatment and wastewater management.

Since the beginning of our operation we concentrate on designing sewage treatment plants. Today we have extended this focal point all over the world.

Together with strong partners like VATECH-WABAG and Siemens we have participated in tenders in China, Cypress, Bulgaria, Latvia, Romania and Croatia.

In the last years we have expanded our expertise in the area of designing of waste water system in Croatia, Bosnia and Herzegovina.



Key aspects of services:

- Designing of sewer systems (local and international)
- Designing of Sewage plants (conventional and new methods)
- Pre-cleaning of industrial sewage
- Digitalisation of existing sewage systems
- Sewers documentation including TV—inspection
- Restoration of the sewage system
- Sewage testing: Sewage sampling, sludge- and ground examination
- Industrial discharger monitoring and -cadastre









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SEWAGE TREAMENT PLANT

REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT	PE
Municipality HARDEGG	Sewage plant Pleissing Submission designing of the sewage plant with SBR operation, 2 sludge dehydration basins every with 690 m ³ , Designing PS in Niederfladnitz (850 PE), final approval	1.760
PETERS ENGINEERING (general contractor offer)	Sewage plant Koprivnica (Croatia Operation: SBR Sludge line with sludge centrifuge General project Detail project, local construction supervision	100.000
Municipality HARDEGG	Sewage plant Mallersbach Submission designing of the sewage plant with SBR operation 2 SBR-basins, sludge dehydration Detail designing and tender, local construction supervisi- on and construction management, handling of subsidy, final approval	1.210
Municipality LITSCHAU	Sewage plant Litschau Adaptation on best available technology, designing to a SBR-plant designing, functional tender, handling of subsidy, local construction supervision and construction management, final approval	6.000
VA TECH - WABAG	Sewage plant Huludao (CHINA) General project with a sewage plant with SBR operation incl. Sludge line (Concept design) Sludge line with stabilization and 2 sludge centrifuges	210.000
Municipality GASTERN	Sewage plant Gastern 2 SBR-basins, sludge storage Sludge dehydration 1. and 2. extension phase Detail designing, tender (soil- and master-builder, me- chanical, measuring & control technology), local construction supervision, designing & construction ma- nagement, handling of subsidy	1.800
Siemens AG Österreich (General contractor- tender)	Sewage plant Pazardjik (Bulgaria)nens AG Österreich eneral contractor- tender)New installation of the WWTP Pazardjik Operation: SBR Sludge line with 2 Sludge centrifuges General project	
BUMBERGER	Sewage plant "Bumberger Grafenau" A constructet wetland for waste water treatment for a small village including a restaurant	50
VA TECH - WABAG	Extension Sewage plant Dubai City Concept designing for rearrangement from 2 existing cache basins to a sewage plant with SBR operation inflow 45.000 m³/d Competition project	
Medimurske Vode Cakovec	Sewage plant Novo Selo na Dravi (Croatia) Designing for 2 extension phases (2500+2500 PE) overall 4 SBR-basins, 2 sludge storage submission and detail designing, tender	5.000
Municipality KISELJAK	Municipality KISELJAKSewage plant region Kiseljak (Bosnia & Herzegov.) 4 basins SBR-plant, mechanical pre-treatment Submission designing	



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SEWAGE TREATMENT PLANT

REFERENCES:

Municipality HARDEGG Sewage plant Pleissing

The wast water of Pleissing, Waschbach, Niederfladnitz and Heufurth is treated in the sewage plant Pleissing. The plant is working with the best availabe technology in SBR operation. In a special basin the sludge turns to soil.

Capacity of the plant :

1.760 PE (Population equivalents)

Fields of responsibility:

Submission- and detailed design Statics and construction design Tendering Local construction supervision Design and construction management Handling of subsidy

Average inflow: 395 m³/d

Stages of the plant:

Mechanical pre-treatment Combi plant: fine screen, sand trap, fat trap Biological stage 2 SBR-basins V= 442 m³ Sludge storage 1 sludge tanks V= 360 m³ 2 sludge dehydration basins









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SEWAGE TREATMENT PLANT

REFERENCES:

Municipality KOPRIVNICA (Croatia):

Koprivnica is a municipality of the city's sewage in the northeast of Croatia. About 40 % of the sewage of the city consists of industrial wastewater. In former times only a mechanical pre-treatment plant has existed.

ÖSTAP as designing institute with its partners Tehnika, Biogest and Peters Engneering provided the best technical and financial solution during a tendering process.

The building permit was accorded in June 2006 and the operation of the sewage treatment plant has been started already in April 2007.

Capacity of the plant : 100.000 PE (Population equivalents)

Fields of responsibility:

Concept design for tender, Detailed design, technical consulting of execution phase

Average inflow: 17.000 m³/d

Stages of the plant:

Mechanical pre-treatment

Coarse screen, fine screen, sand trap, Fat trap **Biological stage** 4 SBR-basins V= 5.990 m³ Sludge storage 3 sludge tanks V= 1.900 m³ Sludge dehydration











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SEWAGE TREATMENT PLANT

REFERENCES:

Municipality HULUDAO (China):

Huludao is a small chinese city 400 km north -east of Beijing at the coast of the yellow sea. In the year 2001 VATECH-WABAG took part in a tender for the sewage treatment of Huludao, and ÖSTAP was engaged to do the concept design and dimensioning for this plant.

In 2002 civil works have started and were finished in the year 2004.

Capacity of the plant :

210.000 PE (Population equivalents)

Fields of responsibility:

Concept design for the tender, Support for the detailed design together with Chinese partners

Average inflow: 70.000 m³/d

Stages of the plant:

Mechanical pre-treatment Coarse screen, fine screen, sand trap, fat trap Biological stage 4 SBR-basins, each approx. 12.400 m³ Sludge storage 2 sludge tanks, each approx. 3.100 m³

Sludge dehydration

2 sludge centrifuges









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COMMERCIAL AND INDUSTRIAL SEWAGE

A key operation area of ÖSTAP is always the support of commercial and industrial enterprises. We offer services in consulting, analysis of sewage and drinking water, plant designing, industrial discharger monitoring and other services in these tasks. ÖSTAP is always able to offer an ideal and customized solution.

Key aspects of service:

- Pre-treatment plants
- Control of oil and grease traps
- Industrial discharger monitoring and support
- Technical consulting in questions of water and sewage
- Treatment plant







REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT	
Dairy MILSY Slovakia	Submission project according to water and building laws for the sewage plant of the factory and the biogas use	
EU-slaughterhouse STRÖBEL	External monitoring flotation plant	
Organic dairy LEMBACH	Submission project according to water act, Pre-treatment, External monitoring, industrial discharger support	
SHELL Aviation Klagenfurt	Monitoring of petroleum trap of the tank farm for planes	
St. Anna children hospital Vienna	Monitoring of the sewage treatment plant	
Vienna School Board Vienna	Adaptation of the sewage plant from school ship "Bertha v. Suttner" Adaptation of the sewage plant, adjustment of practice, Creation of a prac- tice– and maintenance book, ongoing servicing	



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COMMERCIAL AND INDUSTRIAL SEWAGE

REFERENCES:

MILSY dairy business (Slovakia):

The business Milsy is the second largest dairy in Slovakia and is situated in Bánovce and Bebravou. Beginning in 2005 Milsy startet a restructuring process. This includes a new sewage plant, biogas plant and a new calefaction and cooling equipment. It is the special feature of this process, that in addition to the sludge of the sewage treatment plant lactose is put into the biogas reactor to increase the amount of biogas.

Total volume of investment: Fields of responsibility: 5,5 million € Engineering, detailed design of the sewage plant, Negotiations with the competent authorities

Capacity of the WWTP: Maximal inflow:

Stages of the plant:

75.000 PE (Population equivalents) 1.600 m³/d

Mechanical pre-treatment Fine screen, flotation Biological strage Selector 2 SBR-basin every 2.500 m³ Sludge storage



Biogas plant Biogas reactor Sludge dehydration Sludge centrifuge







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REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT	
Municipality HARDEGGWaste water disposal 06 phase of construction: H bach, KG Riegersburg 7.809 m pipe diameter 200 110 m pipe diameter 1000 3.030 m pressure pipe and 5 pumping stations submission- and detail designing, tender, local construction designing and construction management, handling of govern approval		
Municipality HARDEGG	Waste water disposal 08 phase of construction : KG Pleissing, KG Waschbach, KG Heufurth 5.022 m pipe diameter 200 420 m pipe diameter 300 2.273 m pressure pipe 345 m pipe diameter 400 3 pumping stations 66 m pipe diameter 500 submission- and detail designing, tender, local construction supervision, designing and construction management, handling of government aid, fina approval	
Municipality LITSCHAU	Waste water disposal 08 phase of construction: KG Hörma- nns 2.005 m WW sewer pipe diameter 150-200 1.510 m pressure pipe pipe diameter 80 and 3 pumping stations submission- and detail designing, tender, local construction supervision, designing and construction management, handling of government aid, final approval	
Municipality LITSCHAU	Waste water disposal 06 phase of construction: KG Loi- manns, extension Litschau Glashüttenstreet 3.205 m WW-sewer pipe diameter 150-200 445 m SW-sewer pipe diameter 300-500 520 m pressure pipe diameter 80 and 1 pumping station submission– and detail designing, tender, local construction superision, designing and construction management, handling of government aid, fir approval	
Municipality GASTERN	Waste water disposal 03 phase of construction: KG Gastern 3.380 m pipe diameter 200 2.190 m transmission pipeline pipe diameter 200 785 m transmission pipeline pipe diameter 250 760 m private connection pipeline pipe diameter 150 125 private connections submission– and detail designing, tender, local construction supervision, designing and construction management, handling of government aid, final approval	
Municipality MÖNCHHOF	Provision of services industry area North 580 m WW-sewer pipe diameter 200 525 m SW-sewer pipe diameter 300 - 1000 seepage- and evaporation basin 1.100m ³ submission- and detail designing, tender, local construction supervision, designing + construction management, handling of subsidy, final approval	
S-Invest Beteiligungs GmbH (Vienna)	S Provision of services industry area Vienna "Brünnerstraße" 110 m CWW-sewer pipe diameter 300 170 m CWW-sewer pipe diameter 600 400 m CWW-sewer pipe diameter 800 submission designing, tender, construction designing, local construction supervision, final approval	
Medimurske Vode Cakovec (Croatia)	Sewer system Novo Selo na Dravi, Totovec, Šandorovec and Kuršanec WW– and SW– sewer system as well as sewage treatment plant for Novo Selo na Dravi, Totovec, Šandorovec, Kuršanec	



Promise of reliability

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REFERENCES:

Municipality GASTERN:



The municipality of Gastern is situated in the north east of Lower Austria in a very sparsely populated rural area. The wastewater of all in all 8 small villages has to be collected and cleaned in two wastewater treatment plants

Fields of responsibility:

Concept design for the whole municipality, detail design for each phase of construction, tendering, local construction supervision and construction management, designing & consulting in all tasks of water and wastewater management, handling of subsidy, final approval

Stages of sewage system:

12,000 m vitrified clay pipe diameter 200
8,000 m CC-GRP pipe diameter 200
1,500 m pressure pipe PE pipe diameter 80
2 pumping stations
2 sewage treatment plants
450 private connections





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REFERENCES:

Municipality HARDEGG:

The municipality of Hardegg is located in the north of Lower Austria near

the Czech border. It is a very sensitive area in the middle of the national park Thayatal, one of the most beautiful areas in Austria and worthy of protection.

The municipality of Hardegg consists of overall 9 cadastral subdivisions. In 1991 ÖSTAP got the order to provide a study about the sewage system of the whole municipal area. The result of this study was the installation of 5 sewage plants and the corresponding local network.

The whole building project was divided into 9 phases of construction.

Fields of responsibility:

Concept designing for the whole municipality, detail designing of each phase of construction, tender, local construction supervision, designing and construction management, handling of subsidy, final approval Designing and Consulting in all tasks of water and sewage management.

Stages of sewage system:

17.700 m vitrified clay & CC-GRP pipe diameter 200
14.100 m pressure pipe PE HD & GGG pipe diameter 50-100
16 pumping stations
4 sewage treatment plants
approx. 800 private connections



Continuous employee

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REFERENCES:

Waste water treatment plant Municipality POSUŠJE (Bosnia & Herzegovina):

A study about the sewage disposal of the whole municipal area of Posušje was provided by ÖSTAP in the course of the "SOFTLOAN PREPARATORY PROGRAMS" of the Republic Austria.

"Soft loan preparatory programs" pays 80% and the municipality Posušje pays 20% of the costs of this study.

Scope:

Creation of a sewage disposal concept including an extension scheme for the whole municipal area of Posušje, specification of possible locations for WWTP, cost effectiveness consideration

Technical data:

461 km² area watershed 15 cadastral subdivisions













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REFERENCE:

Region around Novo Selo na Dravi (Croatia):

This project includes the designing of sanitary- and storm water sewersystem, and the sewage plant of the municipalities Novo Selo na Dravi, Totovec, Šandorovec and Kuršanec, which are situated in the district Čakovec in the North of Croatia.

The treatment of the waste water will take place in a waste water treatment plant with SBR-operation in Novo Selo na Dravi. The cleaned waste water is led in the river Drau through an existing dehydration canal . The proposal was done in order of Medimurske vode (local authority).

Fields of responsibility:

Sewage system, overall:

Storm water sewer, overall:

Pressure pipe, overall: Sewage pumping station: Capacity of the WWTP:

Detail and accomplishment designing, Creation of basis documents for tender Pipe diameter 250 - 350 Novo Selo na Dravi: 4.660 m Totovec 3.400 m Šandorovec 4.000 m Kuršanec 4.720 m Pipe diameter 300 - 800 Novo Selo na Dravi: 3.260 m Totovec 4.750 m Šandorovec 3.430 m Kuršanec 4.895 m Pipe diameter 200 approx. 2,8 km 3 pieces 5.000 PE (population equivalent)





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SEWER RESTORATION AND MONITORING

Damaged, ineffective and hydraulic overloaded sewers are potential sources of danger for the environment because of the risk of flooding, collapse of sewers and contamination of groundwater and soil caused by harmful substances . Furthermore an increased sewer infiltration water quotient in damaged canals leads to an hydraulic overload of the sewer system and the WWTP.

Many sewage systems have been in use for several decades, so the scope of sewer restoration is becoming more and more important. Therefore ÖSTAP has also specialised in this topic and can offer professional support for all different tasks of detection and documentation of damages as well as restoration of sewage systems.

Key aspects of service:

- Monitoring of existing sewer and canal system
- Tendering and monitoring of sewer inspections (TVinspections)
- Tendering and monitoring of sewer testing (pressure test of canals, man holes, and special buildings)
- Interpretation of the output of insepctions and surveys
- Creating cadastral maps of damages at the system
- Designing of rehabilitation measures
- Tendering and monitoring of restoration works









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SEWER RESTORATION

REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT
SHELL Austria GmbH	SW-sewer restoration part 1-4: "Werk Lobau" approx. 12.000 m SW-sewer pipe diameter 150-500 inspection measures of restoration: robotics restoration, Inlinerrestoration camera TV-inspection, damage categorisation, tender restoration Detail designing, local construction supervision
Ecoplus GmbH	Sewer cadastre & restoration of industry area IZ NÖ SÜD Overall pipeline length WW– and SW-sewer 32.360 m Overall pipeline length water 12.900 m Waste water sewer pipe diameter 150 - 500 Storm water sewer pipe diameter 250 - 1.200 Camera TV-inspection, damage categorisation, tender restoration Detail designing, local construction supervision, designing and construction management, handling of government aid
Municipality LITSCHAU	Damage cadastre & restoration whole sewer system 17.600 m combined waste water sewer Measures of restoration: Inliner, robotics restoration, Quick-lock collar, manual restoration, men hole restoration camera TV-inspection, damage categorisation, tender restoration, Detail designing, local construction supervision, designing and construction management, handling of government aid
Municipality ACHAU	Damage cadastre & restoration whole sewer system 12.975 m combined waste water sewer pipe diameter 150-200 Measures of restoration: Inliner, robotics restoration, Quick-lock collar, manual restoration, men hole restoration camera TV-inspection, damage categorisation, tender restoration, Detail designing, local construction supervision, designing and construction management, handling of government aid
Municipality GASTERN	SW-sewer restoration 10 phase of construction: KG Frühwärts 3.070 m SW-sewer pipe diameter 150-600 inspection Measures of restoration: robotics restoration, Inliner restoration camera TV-inspection, damage categorisation, tender restoration, Detail designing, local construction supervision, designing and construction management, handling of government aid
Municipality GASTERN	SW-sewer restoration 13 phase of construction: KG Garolden 7.621 m SW-sewer pipe diameter 150-1000 inspection measures of restoration: trench camera TV-inspection, damage categorisation, tender restoration, detail designing, local construction supervision, designing and construction management, handling of government aid
Municipality GASTERN	Sewer cadastre whole township area 23.100 m SW– and WW sewer pipe diameter 150-1000 and 440 shafts Handling of government aid, tender camera TV-inspection, local construction supervision, Assessment of existing sewer system, Registration of shafts, Creation of whole existing sewer and canal system, Implementation into GIS
Municipality MÖNCHHOF	Damage cadastre & restoration whole sewer system Overall pipeline length 9.883 m combined waste water sewer pipe diameter 200 - 1.200 Measures of restoration: Inliner, robotics restoration, Quick-lock collar, manual restoration, men hole restoration camera TV-inspection, damage categorisation, tender restoration, Detail designing, local construction supervision, designing and construction management



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SEWER RESTORATION

REFERENCE:

SHELL Austria GmbH:



The company Shell Austria GmbH is holding a large oil storage in Vienna called "Werk Lobau". Shell is running a sewage system and a pre-treatment plant at this oil storage. According to the safety the canal system has to be checked for functional

this oil storage. According to the safety the canal system has to be checked for functional efficiency and tightness in constant intervals of four years. As a result the whole system has been divided in four parts and each year one part has to

As a result the whole system has been divided in four parts and each year one part has to be inspected. After the interpretation of the results, detected damages are restored.

Since 1998 ÖSTAP has supported the surveys and the restoration. The safety at all measures is very important because the whole area is part of the explosion protection area. Explosion-resistant man holes were installed in the sewer system to reduce the risk of explosions.

Fields of responsibility:

Survey methods:

Damages at the sewer system:

Restoration measures:

Tendering of the TV-inspection and restoration, damage assessment, negotiation with authorities, local construction supervision of the TV-inspection and restoration

Camera TV– inspection, pressure controls of the men holes, canals and special buildings

Consolidated accumulations, barriers (roots, extended branches), leaky joints, cracks (radial, length, transverse), corrosion, missing fragments

High pressure cleaning, mechanical cleaning, robot repair, partliner, inliner



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Buarantee of budget

SEWER RESTORATION AND MONITORING

REFERENCE:

ecoplus GmbH IZ NÖ-Süd Wr. Neudorf:



Since 1942 the ecoplus GmbH operates a separated waste water sewer system in the industry park lower Austria-South. Because this system is very old, ÖSTAP was engaged for a review of the actual situation. After creation cadastral maps of damages of the system, a restoration project was provided and the restoration work was tendered.

A surveying of the whole network was made and the data were incorporated in the "digital designing barrier" of ecoplus.



Overall length sewer system:

Fields of responsibility:

Survey methods:

Damages at the

Restoration measures:

sewer system

30.885 m waste- and storm water sewersystem

Geometer, tendering and local construction su pervision of the TV-inspection, damage assess ment, negotiations with authorities, tendering of t he restoration works, local construction supervi sion of the restoration works, handling of subsidy

Camera TV– inspection , pressure controls of the men holes, canals and special buildings

Consolidated accumulations, barriers

(roots, extended branches), leaky joints, cracks (radial, length, transverse), corrosion, missing fragments

High pressure cleaning, mechanical cleaning, robot restoration, partliner, inliner, new building, Quick-Lock



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Customer-oriented approach

L Technisches Büro – Ingenieurbüro – Umwelt Wasser und Abwassertechnik

In the last years intensity of rainfall has increased and as a result of this storm water disposal and flooding protection have gained importance.

The surface water disposal can be done in 2 variants: small-scaled as incorporated seepage of allotment or large-scaled as flood detention and storage basins. Flood protection can furthermore be secured through adequate dimensioned pipes and open channels.

We take care to design these kind of buildings nature-orientated, so that the buildings are integrated very harmonic in the landscape.

Key aspects of service:





- Conception of absorbing well
- Pre-treatment plant of street drainage
- Parking area drainage
- flood detention and storage basins
- Conception of linear dischargers
- River training
- Flood risk assessment
- Designing of ponds and garden ponds







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Engineering & Consulting GmbH

SURFACE WATER DISPOSAL

REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT	
ecoplus GmbH	Center of industry lower Austria South "retention basin Haidbach" Volume of retention: 1.175 m³ settling– and stilling basin 2.250 m³ seepage basin 1 34.110 m³ seepage basin 2 Pump supply: 4 pumps each 2,0 m³/s (1 pump standby) canals: 260 m DN 800 storm water sewer system Submission and detail designing, tender, local construction supervision, designing and construction management, handling of government aid, final approval	
ecoplus GmbH	Business parc Wolkersdorf: storm water disposal 1.188 Ifm SW-sewer DN 300-DN 1200 6.000 m ³ retention basin Radio-controlled drain in the storm water sewer Submission and detail designing, tender, construction supervision, designing and construction management, handling of government aid, final approval	
Government of the Aus- trian Federal Land Lo- wer Austria	Hardegg: Restoration embankment Fugnitz after flood New concept for the timbering, expansion of the waterway in the munici- pality area of Hardegg, approx. 500 m both bank sides. Detail designing, local construction supervision	
Municipality MÖNCHHOF	Project: opening company area north 525 lfm SW-sewer DN 300 - DN 1000 1.100m ³ seepage and evaporation basin Submission and detail designing, tender, local construction supervision, designing and construction management, handling of government aid, final approval	
Municipality MÖNCHHOF	Concept of flood protection for the whole community area The water of the hillside flow now in an new installed rill which was in former times a small path. Restoration of an old rill system for re-use. Crossing main road and railway Creation of flooding areas, realisation in some phases of construction Submission and detail designing, tender, construction supervision, designing and construction management, handling of government aid, final approval	
Pfeiffer Handels GmbH	Seepageproject 1220 Vienna, Pfeiffer Vienna North	
PRO Wohnbau AG	Seepageproject residential area Vienna Aspernstraße	
Schoeller Bleckmann Oilfield Equipment AG	Dewatering outer surface company area Ternitz	
Billa AG	Surface dehydration Animal fractionalize Traiskirchen Surface dehydration Central storage Billa EAST, Wr. Neu- dorf	
Heimbau Gen.mb.H	Seepage project Bombardier-Gründe Vienna, lot 3	
TZT-Wieselburg GmbH	Surface dehydration center of technology	
TZT-Tulln GmbH	Surface dehydration center of technology	
Häusler GmbH	Storm water disposal "Ideenwelt Terrasse und Zaun" Vi- enna North Dehydration company area Wr. Neudorf	
LKW-Walter GmbH	Seepage project company area Wr. Neudorf	



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 $\ddot{O}STAP$ Engineering & Consulting GmbH

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FLOOD PROTECTION - RETENTION

REFERENCES:

ecoplus GmbH IZ NÖ-Süd Wr. Neudorf



The technical office ÖSTAP Engineering & Consulting GmbH was ordered to accomplish a calculation of the catchment area of the whole existing storm water sewage system of the industrial park IZ NÖ-Süd of the ecoplus GmbH.

A further step in the designing process was the design of a new flood detention basin with a settling tank for all accumulated storm water of the industrial area.

The flood detention basin consists of a settling tank, a stilling basin, two storage basins, which are earth basins, and a lifting system with four pumps which have a total power of 6.0 m^3 /s.

Fields of responsibility:

Submission and detail design, tendering, handling of subsidy, local construction supervision and construction management, inspection according to Austrian water act and final approval according to environmental support act

Volume of retention:

1.175 m³ settling and stilling tank
2.250 m³ seepage basin 1
34.110 m³ seepage basin 2

Pump supply:

4 pumps each 2.0 m³/s (1 pump standby)











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Engineering & Consulting GmbH



REFERENCES:

Municipality Mönchhof



Heavy rainfall events occure often and lead to periodic floodings in some areas of the community area in the summertime in the municipality Mönchhof. At first safety measures were designed in the urban area "Am Schranken".

So the storm water has to be collected and the narrow path called "Am Schranken" will be redesigned into a drain. Furthermore new drains will connect this drain with an existing drainage system. The existing drain 1 will be rebuilt and in this course a new crossing of the "Neusiedlerseebahn"-railroad and the main road B51 are designed. The confluence of this drain 1 into the Golser canal will be built new.

Fields of responsibility:	Submission– and detail designing, tender, cost-benefit analysis, local construction supervision and Construction management, final approval, Handling of subsidy
Volume of retention:	9.800 m ³ in the whole canal system
Length of open canals:	1.750 m rearrangement 780 m new construction 850 m transfigure narrow path into drain
Canals:	200 m pipe diameter 500 storm water sewer 26 m pipe diameter 1000 crossing main road

65 m pipe diameter 1000 crossing railway







raditional & modern working methods



Municipality Herrnbaumgarten

For the municipality of Herrnbaumgarten the restoration of the lake of Herrnbaumgarten was designed.

The projected measures contained the adjustment of the lake of Herrnbaumgarten which is located in the south of the local area. After restoration the range of the usual water level to high flow rate 50 annual should be used as volume of retention in the case of a flooding.

DESIGNING OF A POND

Fields of responsibility:

REFERENCES:

Geometer and mapping out of the initial situation, submission and detail designing

Executed measures:

New construction of bottom outlet throttle-sluice pipe diameter 1.200 incl. inlet structure restoration and expansion of riprap

Construction emergency overflow for catastrophic incidents HQ 5.000

PROFIL 2-2





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DESIGNING OF A POND

REFERENCE:

Municipality Altlichtenwarth



The rebuilding of a horsepond was designed for the municipality of Altlichtenwarth in the year of 2000. By means of a new construction of the existing unnatural protection of the embankment with vertical supporting walls a lasting stabilization of the embankment and an improvement of the ecological functional capability of the pond could be gained. The existing breast walls were demolished and a new nature-orientated bank was designed and installed.

A green space comes into beeing as a result of the new design near to nature. This is an advantage for the landscape and useful for a great variety of plants and animals which got a new habitat.

Fields of responsibility:

Submission– and detail designing, handling of subsidy

Executed measures:

Breakup of existing breast walls slope protection via rock fill designing of bays recultivation and planting

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L Technisches Büro – Ingenieurbüro – Umwelt Wasser und Abwassertechnik

WASTE MANAGEMENT

A need of consulting in the matter of waste disposal and dumping came into beeing as a result of the strict laws in these tasks. ÖSTAP offers a professional consulting in all tasks of waste management.

Key aspects of services:

- Designing of landfills
- Design of waste disposal concepts
- Landfill cover
- Landfill monitoring
- Designing of waste collection places







REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT	
NUA Niederösterrei- chische Abfallwirt- schaft GmbH	Overall advice of big landfills NUA Hollabrunn 950.000 m ³ , NUA Hohenruppersdorf 800.000 m ³ incl. infrastructure (warehouses, reloading stations, etc.) Designing, tendering, local construction supervision, technical consulting	
ATP & EVN Kraftwerk Dürnrohr	Overall advice of big landfills Tendering and local construction supervision: closure of landfill 1 - 4,5 ha; Designing and tendering 3 - 950.000 m ³	
Municipality SCHRATTENTHAL	Completion of the landfills Schrattenthal, Waitzendorf, Obermarkersdorf Obermarkersdorf 1,2 ha, Schrattenthal 1,3 ha, Waitzendorf 0,46 ha designing, local construction supervision, technical consulting, landfill me nitoring	
Municipality ZISTERSDORF	Covering measures of the landfill Windisch Baumgarten designing, tendering, local construction supervision, technical consulting	



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WASTE MANAGEMENT

REFERENCES:

NUA Tulln (landfill):

Fields of responsibility:

Executed measures:

Submission– and detail designing, tender, local supervision, dump supervision according to AWG Construction of a dump for household and industry waste inclusive attendant facilities:

- Plant and garage
- External water pipeline
- Leachate pump station
- Active degassing
- Surface coverage

Currently the landfill is in the phase of closure. The technical office ÖSTAP is appointed as supervisory authority and executes all necessary controls. In addition it prepares reports for the waste management authority.





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FINANCING

To complement our services, ÖSTAP offers project financing in special cases .

Especially "Austrian Softloan" or export financing are part of our business.

Of course these financing instruments are only available with special conditions and in some selected countries.

For instance: infrastructural projects like water supply systems or waste water projects in Bosnia and Herzegovina, Albania, Macedonia, and so on.

In addition to the above mentioned financing instruments other credit possibilities can be arranged with our bank partners. In any case a detailed analysis has to be made for every project.



ÖSTAP can be a reliable partner to check out all the possibilities in project financing and find an appropriate solution for her customers.

REGISTER OF REFERENCES (summary):

CUSTOMER	PROJECT
Municipality GRUDE (BiH)	Softloan-Financing for water supply system Expansion of water supply system for whole municipal area Total volume of investment: € 5,0 Mio. Preparation of softloan application, local construction supervision, final report, technical consulting
Municipality POSUŠJE (BiH)	Softloan-Financing for water supply system Expansion of water supply system for whole municipal area Total volume of investment: € 5,0 Mio. Preparation of softloan application, local construction supervision, final report, technical consulting, quality control, idea project WWTP
Municipality SRBAC (BiH)	Softloan-Financing for water supply system Expansion of water supply system for whole municipal area Total volume of investment: € 1,7 Mio. Preparation of softloan application, local construction supervision, final report, technical consulting, quality control
Municipality KISELJAK (BiH)	Softloan-Financing for water supply system and sewage system Construction of a water supply system and sewage system for whole muni- cipal area Total volume of investment: € 9,0 Mio. Preparation of softloan application, quality control, technical consulting, final report, idea project WWTP and sewage system



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SOFTLOAN - FINANCING

REFERENCES:

Water supply system Municipality GRUDE (Bosnia & Herzegovina):



DUKLIS

The expansion of the water supply system of the whole region has highest priority for the municipality Grude. About 35 km of water pipes and fittings therefore had to be bought.

Together with the company DUKTUS (Tiroler Röhren - und Metallwerke), an Austrian pipe manufacturer, this project was realized with an Austrian Softloan financing concept.

Total volume of investment:	5,0 Mio. €
Construction works	2,7 Mio. €
Pipe delivery	2,1 Mio. €
Engineering	0,2 Mio. €

Fields of responsibility:

General design, hydraulic calculation, Softloan application, local construction supervision, quality check, supervision of leak tests, final report, technical consulting

Total length of inserted pipes: 26,4 km

Dimension of inserted pipes:

PE-pipes: pipe diameter 100 -150 mm Cast iron pipes: pipe diameter 200 - 400 mm







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SOFTLOAN - FINANCING

REFERENCES:

Water supply system Municipality POSUŠJE (Bosnia & Herzegovina):

A lake consisting of drinking water is situated in the municipality Posušje. This lake has a storage volume of approx. 5,0 million m³. It is situated in the mountains approx. 900m above sea level.

A transmission pipeline pipe diameter 500 was built in 2008 which leads from the lake to the highlevel reservoir in Posušje. In the future the whole municipality area will be supplied with drinking water through this pipeline.

The main supply system of the municipality was extended by a Softloan-financed-project.

As apart of the softloan project the idea project of the waste water treatment plant Posušje was prepared.

Total volume of investment:	5,0 Mio. €
Construction works	2,5 Mio. €
Pipe delivery	2,3 Mio. €
Engineering	0,2 Mio. €

Fields of responsibility:

General design, hydraulic calculation, softloan application, quality check, supervision of leak tests, technical consulting, final report; idea project WWTP

Total length of inserted pipes: 26,3 km

Dimension of inserted pipes:

Duktile Cast iron pipes DN 150-400 mm



DUKLIS











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SOFTLOAN-FINANCING

REFERENCES:

Water supply system Municipality SRBAC (Bosnia & Herzegovina):

The municipality of SRBAC has expanded it's drinking water system. The water of the spring "Vrijska", which is situated 1,3 km away from Povelic, and the water of a well in Povelic will be used for drinking purposes. This water will be transported via pressure pipes to the south-eastern part of SRBAC. Thereby the villages Zupslki Razboj, Cukli und Ilicani are supplied with drinking water. To realise this project, the municipality SRBAC announced a public tendering, which was won by the company Edtmayer GmbH joined with ÖSTAP and Vododovod SRBAC d.o.o.











Ces

The project was financed by the SOFTLOAN program of the Austrian Republic.

Total volume of investment: 1,7 Mio. €

Fields of responsibility:

Präparation of Tender Documentation, Softloan application, quality check, supervision of leak tests, technical consulting, final report

Total length of inserted pipes: 10,3 km

Dimension of inserted pipes:

PE-pipes pipe diameter 180-400 fittings: Ductile cast iron



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SOFTLOAN - FINANCING

REFERENCES:

Water supply and waste water system Municipality KISELJAK (Bosnia & Herzegovina):



The association of municipalities of Kiseljak is located in Central-Bosnia, approx. 40 km off Sarajevo. Kiseljak needs, just like many municipalities in this area, a working water supply plant and a sewer system.

For the villages Fojnica and Kiseljakwas an expension of the water supply system was designed. Beside this project, it was planned to realise a sewer system extending from the area of Lepenica to Kiseljak.

The preparation of an idea project of the WWTP and the sewer system of Kiseljak was also part of the Softloan-financing.

Total volume of investment:	9,00 Mio. €
Construction works	3,50 Mio. €
Pipe delivery	5,00 Mio. €
Engineering	0,55 Mio. €

Fields of responsibility:

General design, Softloan application, quality check, leak tests, construction supervision, technical consulting, Preparation idea project WWTP (40.000 PE) and idea project of sewer system Kiseljak, final report

Total length of inserted pipes: 31,7 km

Dimension of inserted pipes:

Ductile cast iron pipes DN 125–300 mm fittings: Duktile cast iron

Number of private connections: 3.600 pieces









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Don't hesitate to contact u

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