



# GESALO Water & Wastewater Sector in KSA

Presenting German companies and technologies to KSA partners

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**DR. HERMANN HÜWELS**

*Head of Division Energy,  
Environment and Industry*

Dear Readers,

Clean water and access to sanitation for all is one of the stated aims of the Agenda 2030. Water plays a vital role for humanity: Food, health, the environment and economic development all depend on a sufficient supply of high-quality water. Climate change and the expected surge in droughts and flooding will increase the challenge to reach our targets. New and environmentally as well as economically promising technological developments such as hydrogen production also bring water-related questions on the agenda that we must anticipate and address.

Despite all the challenges we are facing, I think that we have reasons to be optimistic. Not only do policy makers deliver proof that sustainable water management takes an important place on their agenda - the Vision 2030 of the Kingdom of Saudi Arabia appears to be such a proof. What encourages me most is the degree of innovation and entrepreneurial spirit of private businesses as it is not confined to economic success only but has also taken up the challenge

of providing technical and organizational solutions for the increasing pressure our water systems are facing.

As a representative of the DIHK, the largest German business association, please allow me to express my pride in the German water industry. Water technology made in Germany stands for quality and reliability. For the DIHK, the promotion of sustainable technologies is a major concern, which is an important reason why we are engaged in the “Chambers for GreenTech” project supported by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety.

With our German-Saudi Arabian Liaison Office for Economic Affairs, you, dear colleagues from Saudi Arabia, have a strong partner to rely on when discussing the transformation of the Saudi-Arabian water system and realizing the resulting project and business potentials with the German water industry.

I wish you good luck and success!



**DR. DALIA SAMRA-ROHDE**

*Delegate of German Industry &  
Commerce for Saudi Arabia,  
Bahrain and Yemen*

Dear Readers,

The German-Saudi Arabian Liaison Office for Economic Affairs (GESALO) is part of the worldwide network of German Chambers of Commerce Abroad (AHK) with 140 locations in 92 countries. GESALO is the official representation of the German Industry in Saudi Arabia, Bahrain, and Yemen, and thus the key player of German foreign trade promotion on behalf of the Federal Republic of Germany. GESALO was founded in 1978 in Riyadh (Kingdom of Saudi Arabia) and has a large network of business and institutional relations. GESALO offers a range of services to assist German companies in the creation of business opportunities in Saudi Arabia and Bahrain.

This brochure was created for the project “Sustainable Water and Wastewater Management in Saudi Arabia”. GESALO conducted the project on behalf of the German Federal Ministry for Environment Nature Conservation and Nuclear Safety and Chambers for GreenTech

(Exportinitiative Umwelttechnologien). provide an overview of German players in the industry offering excellent opportunities to partner up with.

With the Vision 2030, Saudi Arabia has embarked on an economic transformation and diversification process. The Kingdom is aiming to set up a circular carbon economy. The water sector remains vital for the Kingdom's Vision 2030. The announcement of various Megaprojects and the required infrastructure to realize the projects offer numerous business opportunities for German companies in the water sector. Large investments are announced for the desalination and wastewater sectors, focusing on sustainability.

Germany is offering innovative state of the art technologies and services in the water sector. Despite the fact that German technology providers are already well positioned in the market, we see numerous additional market opportunities.



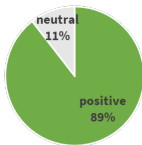
# Sustainable concepts for seawater desalination

**Summary of the presentation from the Saline Water Conversion Company:**

SWCC operates 32 desalination plants (5.9 million cubic meters per day), a transmission network of 11,200 km, 63 pumping stations and 286 water tanks. 43 projects with a value of 42 bn SAR are currently under construction. For 2021 the following projects are expected: water transmission (13 projects), power supply (3 projects), strategic reservoirs (2 projects), security systems (15 projects) and 5 others. SWCC is working on energy supply through PV and reduced power consumption of pressurized water transmission pipelines (recovery of energy).

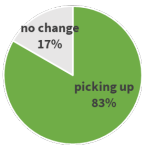
The following are the results of the polls among the participants:

How do you see the opportunities in the desalination sector in Saudi Arabia?



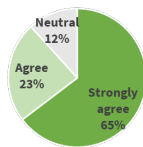
89% of German and Saudi Arabian companies see the opportunities in the desalination sector as positive.

How is the sector expected to evolve in the next years?



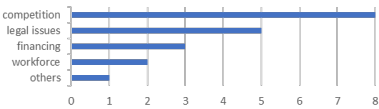
The sector is expected to evolve positively in the next years.

Sustainability plays an important role for our company/institution



For 65% of participating companies and institutions sustainability plays a very important role.

What are the challenges/obstacles for German companies when it comes to engaging with desalination projects in KSA?



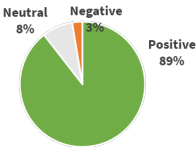
Representatives of German companies see the following obstacles (in order of importance): competition, legal issues, financing, workforce and others.

These results are based on a workshop on 23<sup>rd</sup> February 2021 on the topic of sustainable seawater desalination in Saudi Arabia. This workshop is part of a series of events organized by GESALO and is supported by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) and Chambers for GreenTech (Exportinitiative Umwelttechnologien).

# Sustainable water and wastewater management (focus on industry)

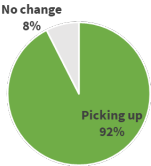
The following are the results of the polls among the participants:

How do you see the opportunities in the industrial water and wastewater sector in Saudi Arabia?



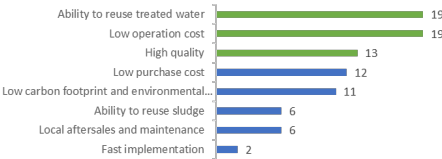
89% of German and Saudi Arabian companies see the opportunities in the industrial water and wastewater sector as positive.

How ist the sector expected to evolve in the next years?



The sector is expected to evolve positively in the next years.

When investing into new wastewater treatment infrastructure, what 3 parameters are most important to you?



Investment decisions for water treatment infrastructure seem to be guided by the ability to reuse treated water, a low operation cost and high quality.

# Sustainable water and wastewater management (focus on industry)



These results are based on a workshop on 1<sup>st</sup> March 2021 on the topic of sustainable water and wastewater management in the industry in Saudi Arabia. This workshop is part of a series of events organized by GESALO and is supported by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) and Chambers for GreenTech (Exportinitiative Umwelttechnologien).

The 3 main challenges that the wastewater sector in Saudi Arabia is facing, as named by the participants are: a lack of encouragement to reuse treated effluent, the inability of the available infrastructure to meet the rising treatment demand and the lack of innovative technologies.

## Sustainable water and waste water management (general)

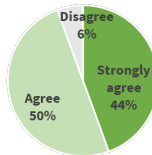
### Summary of the presentations:

Festo Didactic Inc. presented their solutions for technical education to minimize the gap between Industry and Education sector. Specialized toolkits and technical education based on the requirements of the modern water and wastewater sector were presented.

Dornier Consulting presented concepts of aquifer storage and recovery (ASR). ASR systems can support the normal operation of water supply, by bridging the gap between peak and average demand or by buffering the effect of seasonal water supply variations. A Case study of ASR in the GCC region was presented.

The following are the results of the polls among the participants:

Sustainability plays an important role for our  
company/institution



44% of participating companies think that sustainability plays a very important role in their organization.



Our solutions of the traditional brands Passavant®, Noggerath® and Geiger® cover the entire clarification and treatment process – with low maintenance, versatile and flexible:

Pumping stations:

- Shut-off devices
- Coarse screen

Mechanical Pre-treatment:

- Coarse sieving
- Fine screening/sieving
- Screenings treatment
- Sand and sewer sand treatment, sewage receiving stations
- Energy & process efficiency (in preliminary sedimentation, biology + advanced levels)
- Preliminary sedimentation by Carbon-Extract® process
- Aeration
- Aqualogic®
- Adaptive Inlet System for Secondary Clarifiers
- Service (Customer Service & Spare Parts)

#### **CURRENT PROJECTS**

- National Water Company (several projects in Jeddah)
- Aramco
- SWCC
- SAUR-Marafiq (MASA), Seawater Canal Jubail

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BAUER Resources GmbH is a world-leading environmental services and solutions provider. Across the Middle-East, we develop biological treatment systems using constructed wetlands to manage and reuse produced water, industrial and domestic wastewater. Our green solutions have helped especially the oil & gas industry to decarbonise their operations, while safeguarding the environment and generating new habitat for flora and wildlife. Our experienced specialists can support in all stages of the project cycle; ranging from feasibility studies to conceptual and detailed engineering design, construction, operation and maintenance. We work in partnership with innovative technology companies and banks to develop the most technically sound and commercially attractive wastewater treatment & reuse schemes for both public and private clients.

### CURRENT PROJECTS

- a) Nimr Water Treatment Plant; Design, Build, Own & Operation of a 175,000m<sup>3</sup>/day industrial wastewater treatment facility for oil contaminated produced water using constructed wetlands. Client: Petroleum Development Oman, Sultanate of Oman
- b) Engineered Natural Treatment Sys-

tem; Conceptual and detailed design of a constructed wetland for polishing of 100,000m<sup>3</sup>/day industrial and domestic wastewater effluent. Client: Royal Commission of Jubail, KSA

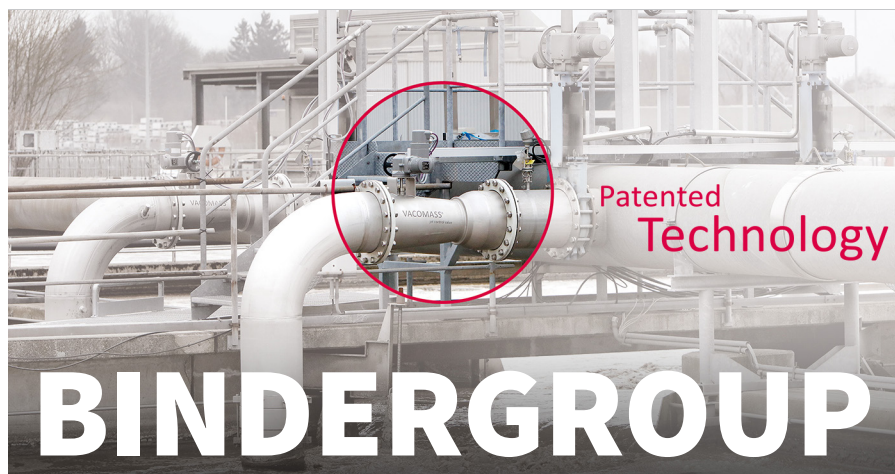
- c) ReedBox®; Treatment of domestic wastewater from remote camps / drilling rigs using BAUER's patented mobile and compact containerized constructed wetland. Can treat up to 15m<sup>3</sup>/day equivalent to 80 persons. Client: KCA Deutag & Shell, Oman

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The BINDERGROUP manufactures measuring and control equipment specialized for gas flow, aeration air, biogas analysis as well as pressure and temperature monitors. Our corporate slogan „BETTER CONTROL. BETTER ENVIRONMENT.“ underlines our products’ contribution to process safety and efficiency, environmental protection and the highest economic customer value. VACOMASS® is a unique modular system for the control of air supply and air distribution to different aeration tanks in WWTPs. It provides high process stability, sustainability, low maintenance, ease of use and integration while maximizing the energy cost saving. COMBIMASS® gas flow meter and analyzer can be used for digester gas monitoring and control biogas from sewage treatment plants, landfills, and solid waste treatment plants. The products are crucial for process monitoring and plant efficiency.

#### PROJECT EXAMPLES

- WWTP Ryadh (KSA) Biogas flow meter and air flow meter - NWC

- WWTP Shanghai Bailonggang (PRC) Aeration control system - Local Municipality
- WWTP Auckland (NZL) Aeration control system - Local Municipality
- WWTP Munich (GER) Control Valves, Aeration control system - Local Municipality
- Milano (ITA), Singapore (SGP), Berlin-Wassmannsdorf (GER)

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Solutions for wastewater and storm water treatment. Since 1976 we are providing wastewater solutions for national and international customers. From the head-quartered in Taunusstein we develop and produce high-quality stainless-steel solutions for a long working life.

BIOGEST is known as an expert for designing and manufacturing of technical equipment for Sequencing Batch Reactor (SBR) systems, which are suitable for small, medium but as well for large wastewater treatment plants. With our experienced engineers we can offer cost effective and best technical solutions. Our more than 500 wastewater treatment plants all around the world (including some in the middle east countries) are a proof for our quality and experience. From 1988 on BIOGEST also developed various solutions for stormwater management became a world leading supplier for rain water solutions.

#### **CURRENT PROJECTS**

- SBR-WWTP „Spinneys Dubai“ (UAE),

Spinneys Dubai L.L.C Fresh Food Industries

- Storm tank equipment for WWTP Wadi Shallala in Greater Irbid, Jordanien, Yarmouk Water Company, The Hashemite Kingdom
- Saudi-Arabia (150 - 10.000 PE): Jeddah (2x), Dammam (3x), Riad (4x), Tabuk (4x)

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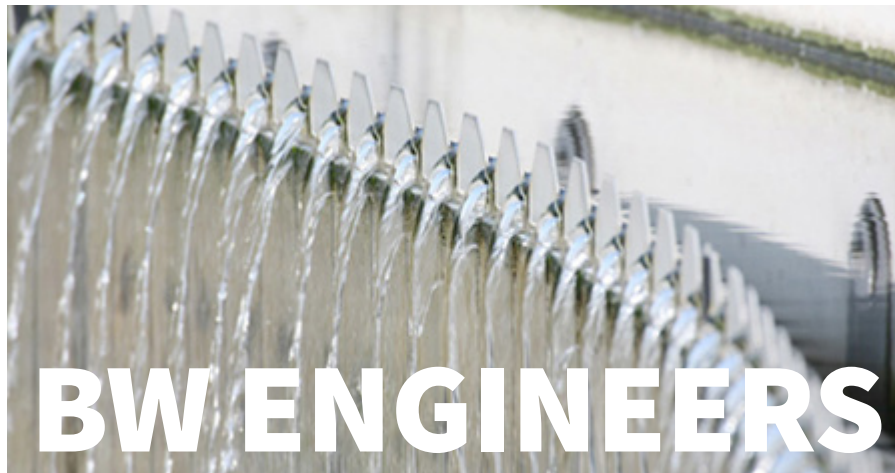
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Bw-engineers represents a consortium of engineering excellence from the South-West of Germany, which integrates and coordinates the foreign market activities of leading consulting companies under a joint management.

Bw-engineers provides technical coverage, interdisciplinary cooperation, profound know-how, and longstanding international experience, tailored to address projects of every nature and scale.

We provide the comprehensive planning and technical assistance services required for projects in the spheres of water supply, wastewater disposal and environmental planning. In addition to engineering services in the areas of water and ecological environment, our expertise includes surveys and baseline studies as well as education and training.

#### **CURRENT PROJECTS**

- Stormwater Drainage Masterplan for the City of Riyadh (in joint venture with Zuhair Fayez Partnership ZFP); Client: City of Riyadh Municipality

- STP Jeddah Airport 2 upgrade & extension, design-build (in coop. with Alkawther Industries Ltd.); Client: National Water Company NWT
- Value engineering 3 STPs in Quaseem region, Client: Alkhorayef
- MOWAH Aquifer Study – Audit & Assessment Report; Client: MOWAH

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Established in 1951, Dorsch offers an integrated, multi-disciplinary package of engineering, economic and environmental components covering the entire range from studies, planning, design through project implementation, as well as O&M/asset management in the field of urban, infrastructure, water & wastewater, landscaping & irrigation, environment, transportation, buildings, etc. With around 2600 employees, Dorsch maintains branch offices and subsidiaries in Germany, Europe, Middle East, Asia and Africa.

#### **CURRENT PROJECTS**

- Infrastructure Design & Construction Supervision of Diriyah Gate (KSA)
- Construction Supervision of Taif – Baha Water Transmission System (KSA)
- Master Plan & Infrastructure Design for Aseer Second Industrial City (KSA)
- Development and Upgrade of Treatment Plant and Recycled Water Transmission Main to Liwa City (UAE)
- Construction of an Integrated Sewer-

age System for Tarif & Bida Mutawa Cities (United Arab Emirates)

- Upgrade and Extension of WWTP, Final Effluent Treatment Station and Mono-Sludge Landfill (Jordan)
- Extension and Rehabilitation of Sewer Networks, WWTP, Small Hydropower Station (Jordan)

#### **CONTACT**

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EnviroChemie supplies sustainable system solutions for industrial water and wastewater treatment worldwide. This includes energy and resource efficient solutions for water treatment and water recycling as well as the treatment of process water, cooling water, boiler water, wastewater and spent caustic. In our own laboratory and technical center we develop the technologies and water chemicals for chemical-physical, biological and membrane based water and wastewater treatment solutions. EnviroChemie is a regular partner in national and international research projects for the development of future-oriented technologies. We supply water technology "Made in Germany" all over the world. Our international locations include an office in Dubai, UAE.

EnviroChemie is part of the Enviro-Water Group, a network of specialists for sustainable water treatment.

#### **CURRENT PROJECTS**

- Petro Industry, Saudi Arabia

- Food Industry, UAE
- Polysilicon factory, Ras Laffan, Qatar
- Paint Industry, Oman
- Basic Chemical Industry, Saudi Arabia
- Schadadija Industrial Zone, Kuwait
- Petro Industry (Study), Saudi Arabia

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Festo Didactic, a company of the Festo Group, is the world-leading provider of equipment and solutions for technical education.

Our product and service portfolio offer solutions for rapid learning and retention in a broad spectrum of technologies, including a complete coverage of automation: pneumatics, hydraulics, electronics, electrical engineering, manufacturing technology, process control engineering, mechatronics, CNC technology, HVAC, Bionic Learning Network, Festo Learning Experience – The digital learning portal LX as well as telecommunication.

And it meshes the technical learning content with knowledge and training courses from other specialist areas, such as process optimization, management and communication. All learning environments, such as learning factories, laboratory equipment and e-learning products, are offered in conjunction with technical, organizational and people-oriented training programmes – in 40 languages worldwide.

#### CURRENT PROJECTS

- KFUPM, King Fahed University of Petroleum & Minerals, Dammam, KSA
- KAU, King Abdulaziz University, Jeddah, KSA
- SMP, Saudi Mining Polytechnic, Arar, KSA
- TVTC, Technical and Vocational Training Corporation, Riyadh, KSA
- KSU, King Saud University, Riyadh, KSA

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The Fraunhofer-Gesellschaft, headquartered in Germany, is the world's leading applied research organization. With its focus on developing key technologies that are vital for the future and enabling the commercial exploitation of this work by business and industry, Fraunhofer plays a central role in the innovation process.

The Fraunhofer Institute for Silicate Research ISC, directed by Prof. Dr. Gerhard Sextl, is one of the most important centers for material-based research and development in Germany. Around 400 employees work on innovative materials and technologies for sustainable products and make essential contributions to solving the major global issues and challenges of the future. Research focuses on energy, biomedicine, climate and environment, digitalization and adaptive systems, as well as water purification and desalination.

#### **CURRENT PROJECTS**

Since 2013, Fraunhofer ISC has had so-

lar and environment-related projects in Saudi Arabia with KACST (King Abdulaziz City of Science and Technology). Fraunhofer ISC also participates in public tenders, such as TLC R3 RFP at KA CARE in Saudi Arabia.

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The inter 3 Institute for Resource Management is a research and consultancy expert, combining technological, environmental and socio-economic approaches for sustainable resource management for over 20 years. The regional focus of our international activities is the Middle East. We work in this region on behalf of the World Bank, the EU and various ministries.

Our most important concern is to make the latest international research results usable on the ground: In water resource management and in land use – in the city and in rural regions. We specialise in integrated water and land management and offer the following services:

- Modelling and management of water resources, water reuse for agriculture and urban farming.
- Innovation management for the implementation of solutions.
- Training for your employees. We operate our own digital platform on topics such as water and wastewater.

#### **CURRENT PROJECTS**

- WEB-TT Water-Energy-Building Train-

ing & Transfer; "Vocational Training and Education Center Haram City in Egypt". Federal Ministry for Education and Research (BMBF).

- National Waste Water Financing and Investment Strategy in Iran. World Bank.
- European Water Management between Regulation and Competition. European Union.

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JUMO is an family owned business located in Germany (2.400 Empl.). We are a leading manufacturer of measurement, control & sensor technology for the water and wastewater industry, among others. Our measurement technology and sensors for temperature, pressure, flow, level and water analysis are used worldwide. Quality "Made in Germany" and high customer orientation are our strengths. Digital sensor technology and cloud solutions set standards in the water industry. Whether ultrapure water for pharmaceuticals, drinking or bathing water, Seawater-Desalting, process&cooling water or municipal wastewater - JUMO products fit the bill. Other main industries are the Food industry, Energy sector, Thermal processes and railway technology. From our own JUMO office in Dubai and several Distributors we serve the GCC region with dedicated sales and service staff.

#### **CURRENT PROJECTS**

References on Request.

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Kling Consult's rich history started in 1954 in Germany when Engineer Karl Kling opened a small bureau, a "one-man enterprise", to make his contribution into re-building the post-war country. Krumbach hammer mill was the first project in the long chain of Kling's successfully completed projects. Year 1975 marked the beginning of the company global expansion, which started with a Television Tower project in Riyadh, the highest structure in KSA at that time. Since then Kling Consult has grown into a large engineering and architectural practice with strong international presence, regional offices worldwide and hundreds of completed projects.

Kling Consult Dubai Branch was established in 2004 followed by offices in Abu Dhabi, Jeddah, Doha and India. For more than a decade now we are designing and building the shape of the new Middle East.

### PROJECT EXAMPLES

- Sewerage Network (Sewage and storm water disposal, retaining capacity sewer, traffic facilities, water supply and vacuum drainage). Client: Municipality

ty of Kammlach, Germany

- Pipeline Kehl - Tübingen, Germany (hydraulic calculations, water resources engineering). Client: Building Authority Baden-Baden, Germany
- Sewage Disposal in Münsterhausen. Client: Municipality of Münsterhausen, Germany
- New water supply between the cities Neuburg and Edelstetten (Germany). Client: City of Neuburg, Germany

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KSB is one of the world's leading supplier of pumps and systems. It is a brand with the greatest technical expertise in pumps applications and in manufacturing with over 150 years of demonstrated market leadership. Wherever fluids need to be transported, customers worldwide choose our technology for their success.

Our Major Clients are:

- ARAMCO
- SWCC
- MEWA\ NWC
- SEC
- SABIC

#### **CURRENT PROJECTS**

- Jubail II
- YASREF fuel surge relief skid
- Tabouk BWRO· Sudan Project
- Mansourah Masarah Gold project.

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As one of the market leaders for wastewater treatment technology in Germany, LKT (Laustitzer Klärtechnik GmbH) has concentrated for many years on decentralized wastewater management. Using the most modern technology, exceptionally high quality products have been manufactured, which have proven themselves 50,000 times over in the meantime and provable achieved exceptional wastewater treatment results.

To guarantee this high level of skillfulness in the future, we are developing new approaches to wastewater treatment procedures and are continuously optimizing high-quality, long-life products.

Our product range includes:

- wastewater treatment plants for 4 - 5.000 people
- pumping stations
- separators
- rainwater utilisation
- septic tanks

#### CURRENT PROJECTS

- Wastewater treatment plant for 500 PE at the airport in Dubai
- 300 wastewater treatment plants in China
- More than 100 projects in Europe
- Several projects in Africa (Rwanda, Nigeria, Uganda)

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LKT

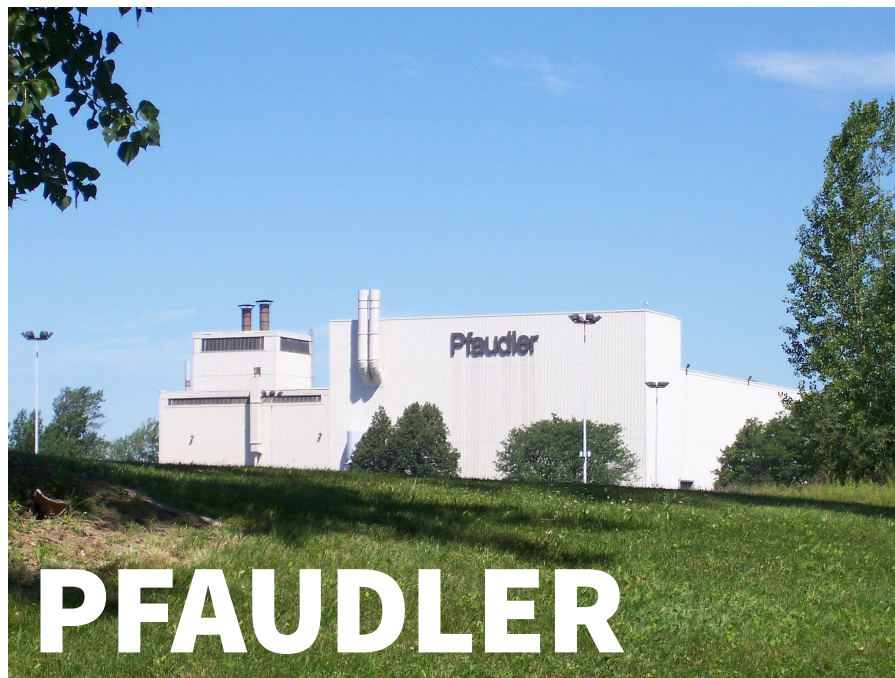
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WATER, WASTEWATER, DESALINATION, WATER DISTRIBUTION, ENERGY EFFICIENCY,  
CHEMICAL, PHARMACEUTICAL, FOOD INDUSTRY, ENERGY SECTOR



We are interested in supporting customers worldwide with our emailed measurement technology. Among other things, we offer measuring probes for pH, conductivity, redox and temperature measurement.

Who we are: Pfaudler is a global Group offering a wide range of corrosion-resistant technologies, systems and related services for the chemical, pharmaceutical and food industries.

Scope of Pfaudler glass-lined instruments: Physical measures: temperature, liquid level, phase separation, corrosion monitoring. Liquid analysis measures: pH/ rH/ ORP (Oxidation/ reduction potential), conductivity.

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p2mberlin GmbH is the consulting engineering firm of the Berlin Water Group offering services in all fields related to water supply and sanitary engineering.

p2mberlin implements the engineering and economic knowledge of more than 150 years of experience in water supply and sanitation operation in Berlin. An exceptional attribute of the Berlinwasser Group is the extensive experience with ecological, economic and technical design, financing, construction and management of communal water and wastewater infrastructure.

p2mberlin covers all project phases, starting from Master planning, Feasibility Studies, design and detailed design, tender documents to construction supervision and assistance during commissioning and operational support for all infrastructure of water supply and sanitary engineering systems.

#### **CURRENT PROJECTS**

- Expansion of Tubli Sewage Treatment Plant Phase 4, Client: Ministry of Works Municipalities Affairs and Urban Planning of Bahrain
- Client's Engineer for Muharraq

Sewage Treatment Plant and Sewage Collection System, Client: Ministry of Works Municipalities Affairs and Urban Planning of Bahrain

- Independent Sewage Treatment Plant ISTP-2 Jeddah Airport, Client: SSEM, KSA
- Industrial Wastewater Treatment Plant IWWTP8 Stage 4, Jubail, Client: SSEM, KSA

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Sachsen Wasser GmbH, SaWa, is a specialised consulting company in the field of water supply and sanitation with a particular focus on water utility advisory, training, operations and maintenance. The company is based in Leipzig and operates worldwide.

SaWa offers its clients full service from drinking water production to wastewater disposal and renders administrative, technical, financial and commercial support to water and wastewater utilities worldwide.

SaWa has a long track record of successful projects in South-Eastern Europe, Central/East Asia, the Middle East, Africa and Latin America.

SaWa has been founded in the year 2000 as a 100% subsidiary of the municipal utility Leipziger Wasserwerke, one of the largest water and wastewater utilities in Germany, since 2015 it operates as an independent consulting company.

#### **CURRENT PROJECTS**

- Iran / Teheran: Demonstration site for decentralized waste water treatment
- Palestine / Jenin, Tubas: Water and

sewerage Masterplan for the North and North-West Region of the West Bank

- Ethiopia / Itang: Capacity Building for Itang Water Utility
- Germany / Thuringia: Technical Operations of the wastewater treatment plants of the wastewater association Grammetal; Technical and commercial services for water and wastewater association Nesselal

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The V-LINE GROUP manages the procurement complexity of industrial spare parts for Maintenance, Repair and Operations for industrial plants worldwide. By keeping up to date with the latest trends and technologies, V-LINE is setting up new standards with its customers. Inventory optimization, virtual warehouse, AI, machine learning systems and predictive maintenance: V-LINE provides its customers the best possible solutions tailored to their requirements to achieve the highest level of value creation within the entire supply chain.

The V-LINE GROUP is headquartered near Hannover, Germany, with branches in Saudi Arabia and customer service centers in other GCC countries, Mexico and Brazil. Further sourcing and procurement centers are located in the USA, China, Japan and Korea.

### CURRENT PROJECTS

V-LINE started its business in spare parts for desalination for SWCC and, after more than 40 years of business expertise, is still supply chain service provider for one of the biggest desalination plants of the world.

V-LINE is also supplying the biggest wastewater treatment plant in the Kingdom of Saudi Arabia. Also other clients, responsible for desalination and energy efficiency plants, rely on V-LINE.

V-LINE is eager to keep track on new innovations and opportunities for a sustainable future. Thus, V-LINE is also exploring chances for green H2 production to support the whole GCC region.

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WATER, WASTEWATER, DESALINATION, WATER DISTRIBUTION, SOLAR ENERGY, ENERGY EFFICIENCY, CHEMICAL, PHARMACEUTICAL, FOOD INDUSTRY, ENERGY SECTOR



# WILO GROUP

The Wilo Group is one of the world's leading premium providers of pumps and pump systems for the building services, water management and industrial sectors. Founded in Dortmund in 1872 as a factory for copper and brass goods, In the past decade, we have developed from a hidden champion into a visible and connected champion. Today, Wilo has around 8,000 employees worldwide and 16 production sites. Our innovative solutions, smart products and individual services move water in an intelligent, efficient and climate-friendly manner.

## CURRENT PROJECTS

- NEOM Saudi Arabia
- Dubai Metro
- Riyadh Metro

- Cairo International Airport

## CONTACT

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Boreal Light manufactures the Winture PlanetCube, an innovative solar water desalination system for off-grid communities. Our systems deliver perfectly clean drinking, irrigation, fish farm and sanitation water from any kind of saline and/or polluted water source at a fraction of the market cost.

The decentral approach reduces investment costs for infrastructure and increases safety of supply. As all our systems are powered by solar energy they have zero energy costs and very low operating costs, run independent of unreliable power sources (like electricity grids or diesel deliveries) and have zero emissions.

A simple design makes our systems extremely robust: 80% of maintenance can be done by anyone with a screwdriver and a wrench. We only use quality parts made in the European Union and manufacture our systems from A to Z in our production hall in Berlin.

### CURRENT PROJECTS

Boreal Light is the leading manufacturer of solar water desalination systems in Africa with more than 60 installations between Cape Town and Somalia. Kenyatta

hospital, the largest hospital in East Africa with 1800 beds is among Boreal Lights clients as well as 25 other hospitals. Further installations have been realized in the Philippines, Indonesia and Mexico.

Boreal Light has supplied its solution to public and private sector alike. The systems are suitable for NGOs, municipalities, hospitals, hotels, oil and gas companies, farming and fish farming industry to name just a few.

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WTA TECHNOLOGIES GmbH (WTA) is the technology leader in submerged filtration. Based in central Germany, WTA supplies its products and services worldwide, focusing in submerged filtration for applications in water, wastewater and re-use applications. We manufacture customized membrane modules, using a full automated production line with a capacity of 250.000 m<sup>2</sup> per year membrane area. WTA offers 3 different module types, H4S for small plants, H4L for medium size plants and H5L of huge plants with deep filtration tanks. These module types are fully customizable concerning membrane area, membrane type and module dimensions. Using our patented Laminate MYTEX, the modules are back-washable and highly pressure stable. WTA is the only company offering Retrofit Kits for all other brands to keep replacements cost at lowest level possible.

#### **CURRENT PROJECTS**

- Municipal Wastewater: Worker Champ Dubai, Hitachi Replacement, UAE –

1.000 SQM

- Industrial Wastewater: Drinking water industry, Germany - 2.000 SQM
- Municipal Wastewater, MBR in California, USA – 6.600 SQM
- Municipal Wastewater, KUBOTA Retrofit, Turkey – 480 SQM for one EK400

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The WTE Group plans, builds, finances and operates facilities for wastewater disposal, drinking water supply and energy generation.

As one of Europe's leading full-service suppliers, we possess a unique set of know-how. We employ our knowledge to create future-proof solutions that set international standards in terms of energy efficiency, use of resources and investment costs.

We aim to build ecologically compatible facilities that operate efficiently by effectively blending the elements of water and energy. We assure the usability of energy sources along the entire process chain, enabling the facilities to be operated in an energy self-sufficient and energy-saving way, with surplus energy being re-distributed.

We feel committed and bound to this sustainable approach, which has served customers and the environment in more than a hundred projects in eighteen countries.

#### **CURRENT PROJECTS**

- Tubli WPCC - rehabilitation of rapid gravity filters / Bahrain
- WWTP Tubli (Expansion Phase 4) / Bahrain
- WTP & Network/TADS Umm Al-Hayman (UAH) / Kuwait / State of Kuwait
- WWTP Zagreb, Croatia

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