Competency Map

Regional Section Africa
German Water Partnership (GWP) is the strong network of the German water sector representing 350 members from water industry and research. The network includes water utilities, commercial enterprises, governmental organizations, non-governmental organizations, scientific institutions and water-related associations. By covering the complete water cycle, GWP is the central point of contact for foreign partners and is being actively supported by five German federal ministries.

Since 2008 this network has been acting as a central coordination office for foreign clients and decision makers seeking German expertise in the water sector. The main goal of GWP is to establish German expertise and quality worldwide and to position German water competencies in international markets. Thus, integrated and sustainable approaches meet the problems and challenges of water management all over the world and the use of innovative technologies and German know-how is being improved worldwide.

The members of GWP are dedicated to a set of guiding values and common objectives when providing services to their international clients and partners.

The members of GWP are organized in 15 regional sections, each of which focuses on a specific country or region. Objectives of these regional sections are to cultivate contacts with partners and decision makers in those countries, to kick off projects and work out custom-tailored solutions in water management. These regional sections are the central contact point for all enquiries placed by foreign businesses, organizations and governments. Furthermore, GWP offers its members the participation in working groups, to work at different aspects of water management.

The regional section Africa is one of the most active within German Water Partnership.

More information about German Water Partnership, its members and activities can be found at:

www.germanwaterpartnership.de
Competencies in water & wastewater

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AKUT was founded in 1988. Its interdisciplinary approach has led to AKUT being widely acknowledged as creative and reliable engineering and consulting firm. AKUT plans and designs innovative and cost-effective solutions for wastewater, waste and energy, such as SBR, constructed wetlands, biogas plants and building technology focusing on energy-efficiency, water-reuse and renewable energies. AKUT has been active in the international cooperation since 1998. Priorities are knowledge transfer, design of infrastructure and institutional strengthening in the sector of water supply and waste water management. Experience exists in Latin America, Africa and Asia.

WEBSITE: www.akut-umwelt.de
Aqseptence Group GmbH, Division Water Intake Systems – centrally based in Karlsruhe, Germany – is a world-renowned mechanical engineering company specialized in the development and production of water intake systems. These include bar screening and trash raking machines as well as mesh/travelling band screening machines, mostly made in Germany.

We provide design and tailor-made manufacturing of automated screening machines for the filtration of debris at the intake of sea or river water for power plants (nuclear-, gas- and coal-fired power plants), desalination plants as well as industrial- and potable water systems. The aim is to protect pumps and subsequent process steps such as condenser tubes to avoid carry-over of debris.

Our extensive experience and customized design are also ideal to provide special solutions for the improvement of existing water intake systems. A state-of-the-art technology for the protection of fish and other aquatic organisms completes our concept of efficient and environmentally friendly water intake.

WEBSITE: www.aqseptence.com
One element for your success

The aqua consult Ingenieur GmbH is an independent consulting and engineering company in the field of environmental protection. From the last 30 years of our activity we gathered over 1,000 references worldwide concerning water supply, sewerage system, industrial and municipal wastewater treatment, biogas, solid waste management and waste air projects. The head office of aqua consult is located in Hannover (Germany) with branches in Erfurt, Oldenburg (Germany) and in Tartu (Estonia).

At time we have a staff of about 80 qualified employees in the whole aqua consult group and around 50 in the head office in Hanover and Erfurt/Germany. In the field of wastewater and biogas we are specialized in design, management, realization and operation of complete systems including transportation and treatment. Our services include the enlargement of existing plants under running operation conditions. The utilization of energy from wastewater and sewage sludge is one of aqua consult’s core competences. In some of our references we realized complete energy self-sufficient wastewater treatment plants. Within the framework of our global activities aqua consult jointly worked together with our partners in several counties all over the african continent such as, for example, South Africa, Botswana, Nigeria, Ethiopia, Egypt, Tunisia.

WEBSITE: www.aqua-consult.de
Future in water

aqua & waste International GmbH was founded in 2002 and is an independent consulting and engineering company in the field of environmental protection. Our main focus is on projects for water supply, wastewater treatment, solid waste management, waste air treatment and biogas production. aqua & waste has a worldwide network of international clients from industrial and municipal wastewater treatment plants and is specialized in design, management, realization and operation of wastewater treatment systems, including conveyance and treatment of wastewater and sludge. Moreover, the enlargement of existing plants which are already in operation is another field of our expertise.

The head office of aqua & waste is located in Hannover, Germany. The owner and managing director, Prof. Dr.-Ing. Peter Hartwig, has gathered over 25 years of experience in the field of environmental protection with more than 80 references for wastewater and sludge treatment projects. Prof. Dr.-Ing. Peter Hartwig is an active member of several German expert groups and associations in the water sector. Within the framework of our global activities aqua & waste jointly worked together with our partners in several counties all over the african continent such as, for example, South Africa, Botswana, Nigeria, Ethiopia, Egypt, Tunisia.

WEBSITE: www.aquawaste.de
Partner for penstocks, sluice gates & flaps

ATEC GmbH is your leading designer and manufacturer of penstocks and your dedicated partner for wastewater and water solutions. Due to our long-term experience in designing penstocks, we can offer you a wide range of components that will meet your very specific needs.

We offer:
› Engineering expertise
› Wide range of penstocks, gates, flush valves & telescopic valves
› Standard penstock solutions with modular setups
› Tailor-made technical solutions: penstocks for high water pressure, penstocks in large dimensions, penstocks made from special materials
› Certified manufacturing out of German

Thanks to our well-proven and tested modular product design, we can combine almost any penstocks with all our operating gears. Use our competence and expertise to create your customized solution.

WEBSITE: www.atec-hdh.de
Solutions for waste water and storm water treatment

Since 1976 we are providing wastewater solutions for national and international costumers. From the headquarter in Taunusstein we develop and produce high quality stainless steel solutions for a long working life. Our more than 500 wastewater treatment plants all around the world are a proof for our quality and experience.

BIOGEST is known as an expert for technical equipment for Sequenced Batch Reactor (SBR) systems, which are most suitable for small but as well for large wastewater treatment plants up to multiple hundred thousand equivalent values. With our experienced engineers we can offer cost effective and best technical solutions.

From 1988 on BIOGEST also developed various patented flow regulators “Alpheus” and storm tank cleaning systems like the “vacuum flushing type MF” followed by multiple other products for the rainwater treatment. Since then BIOGEST became one of the leading suppliers for rainwater solutions worldwide.

WEBSITE: www.biogest.com
Inspired to think.
Driven to solve.

CDM Smith provides lasting and integrated solutions in water, environment, mining, transportation, energy and facilities to public and private clients worldwide. As a full-service engineering and construction firm with more than 5,000 employees, we deliver exceptional client service, quality results and enduring value across the entire project life-cycle.

Water solutions have been the cornerstone of CDM Smith for over 60 years and we understand that effective water management is critical to our clients. We have developed sustainable water and wastewater management strategies to minimize consumption, reduce or eliminate discharges, reduce operating costs, and meet regulatory requirements. Adapting to each country's specific requirements, our experts offer the full spectrum of services, ranging from water treatment, water reduction and recycling/reuse, to wastewater/stormwater management and flood protection.

As a leader in the field, CDM Smith has assisted numerous clients in the development and implementation of sustainable solid waste management systems. Our services include design and construction of solid waste collection and transportation facilities as well as facilities for sorting, recycling, and disposal; projects for landfill rehabilitation, and landfill gas utilization as a renewable energy source. We also provide training for operation and maintenance, as well as capacity building and institutional strengthening for the operation of waste management facilities.

WEBSITE: www.cdsmith.com

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Full-service engineering and construction firm for water/wastewater and solid waste solutions
Water and wastewater services – hands-on solutions

CONSULAQUA Hamburg Beratungsgesellschaft mbH (CAH), the interface between a public utility and the private consulting sector is a 100 % subsidiary company of HAMBURG WASSER – Northern Germany’s largest public water supply and wastewater utility. CAH has access to knowledge and expertise from over 175 years of service to currently more than two million people. The Utility Knowledge Transfer is applied using practical and customised solutions for technical and commercial challenges appearing throughout the water cycle and is internationally implemented by hands-on experts, following a Peer-to-Peer Approach.

Our customised solutions throughout the water cycle include:
› Ground water modelling and well field management
› Hydraulic optimisation and improvement of energy efficiency
› Water loss reduction – technical and commercial
› Sewer rehabilitation
› Treatment process optimisation – water and wastewater
› O&M procedures and asset management
› Business process optimisation

Our Utility Knowledge Transfer is facilitated by our hands-on experts through:
› Training workshops, on-the-job and vocational trainings of operational staff
› Coaching and Mentoring
› Twinning of expert staff with HAMBURG WASSER Practitioners on technical and managerial level

We work in various countries in South-East Europe, Latin America, Middle East and Northern Africa, Sub-Saharan Africa, and the Caribbean.

WEBSITE: www.consulaqua.de
Experts in fluid technology

Since more than 25 years CONTINENTAL INDUSTRIE is setting new standards in centrifugal blower technology. By conjunction of sophisticated applications engineering with always up to date techniques we could contribute to that centrifugal blowers are applied in many branches of industry all over the world.

We supply quiet Multistage Centrifugal Blowers and Exhausters in the range from 150 to 60000 m³/h for pressure (40 to 1450 mbar) and vacuum (30 to 570 mbar). For air and gas handling applications, with ATEX certificate optional. Whenever you require dry, clean and non-pulsing air or gas, then you should specify Continental Industrie blowers and exhausters. Additionally we've developed our own integrally geared Turbo Blowers. These can be supplied for a range from 9.000 to 35000 Nm³/h for pressure up to 1.4 bar g.

Uniform delivery of pulse free, oil free air, quiet performance in compliance with European and American standards and variable volume flow capabilities are just some of our advantages.

» WEBSITE: www.continental-industrie.de
decon international GmbH combines the specific expertise gained in more than 1,500 projects, that have been successfully carried out in more than 140 countries for a wide range of clients including state authorities, ministries, utilities, and national or international financing institutions and development banks. The competences of decon international are concentrated on the core fields of activity Energy and Water, Sanitation, Infrastructure and all related ecological and economic aspects.

Within this scope the company implements projects either alone or in cooperation with other renowned national or international consulting firms. The project results being always at a very high standard of service based on technically sound and economically viable solutions.

In water sector decon international team offers a broad scope of engineering and consulting services with high quality for all stages of a project. These services comprise project management, pre-feasibility and feasibility studies, detailed design and planning studies, preparation of tender documents and assistance in bid evaluation, as well as contract negotiations. Moreover, the services comprise supervision of construction, participation in acceptance tests as well assistance during the guarantee period. Advisory services to ministries, regulatory bodies, public and private utilities, investors and other stakeholders is also a focal point of the activities of the company.

WEBSITE: www.decon.de

Operation & management, consulting & engineering, training

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Festo – partner for water technology

Whether for municipal or industrial water treatment and sewage treatment: Festo offers individual automation solutions from concept creation to smooth operation. Powerful, economical and reliable solutions from a single source. Ranging from actuator technology to the field level, as individual components or a preassembled system, altogether more intelligent automation.

Industrial automation of potable, and wastewater treatment plants ensures customers have access to this high-quality resource whenever it is needed. Pneumatics presents a valuable and extremely reliable alternative to electrical automation systems, especially when it comes to meeting the requirements of water and wastewater treatment.

Festo is well placed to give you this information. A leading innovator in manufacturing and process automation, Festo has been active for many years in the area of water treatment, with complete, single-source automation solutions tailored to meet the needs of plant operators. Including intensive consultation and support through all the specific project steps of value creation.

62 national companies, 20,000 employees and a dense customer service network in more than 170 countries means that users all over the world can rely on us to supply them at very short notice with components, subsystems and systems for automation tasks.

For more than 300,000 industrial customers, Festo is a valued business partner.

> WEBSITE: www.festo.com/water
INTEWA GmbH develops, researches and markets innovative products for infiltration and attenuation of stormwater, rainwater harvesting, greywater recycling and potable water production. As experts in water management and reuse, INTEWA directs rainfall and saves water. Our global perspective contributes to environmental protection based on the UN Sustainable Development Goals. Since INTEWA’s establishment in 1993, we raised the bar as a technology leader and set new standards with a range of powerful products and systems.

INTEWA is continually developing and growing our international partner distribution network through contacts with industry leaders, commercial and public entities. Our products and systems are represented in 20+ countries.

INTEWA provides the most efficient solutions on the market for water management and treatment in private, public and commercial construction projects. We assist planners, installers and system operators with best practices before, during and after system implementation.
Your partner for sensor and automation solutions

JUMO is one of the leading manufacturers in the field of industrial sensor and automation technology. Today, the product spectrum from JUMO covers components and system solutions for the measurement, control, recording and analysis of physical and chemical parameters. The products range from sensors for temperature, pressure and analytical measurement to the control and recording of measurement data. These instruments and systems are used in a very wide variety of industries especially in the water and wastewater industry.

Whatever the requirements of measurement technology, JUMO always meets your needs. With the goal of guaranteeing consistent high quality water and treated wastewater, there is a need to perform reliable, accurate measurements, which can be controlled and monitored from a central location. Other than established products you will also find innovations such as the digital analysis sensors of the JUMO digiLine family. From the digital networking of sensors to easy accessibility of complete measuring points from the Internet, JUMO is setting standards for equipping the most modern plants in many different areas of the water and wastewater industry.

» WEBSITE: www.jumo.net
Our technology. Your success.

As a company with a total sales volume of almost €2,265 million, KSB is one of the world’s leading suppliers of pumps, valves and associated systems. KSB products and systems are used in a large variety of applications ranging from building services, industry, water transport, waste water treatment and power plant processes.

Founded in Frankenthal (Germany) in 1871, KSB has a presence on all continents with its own sales and marketing organisations, manufacturing facilities and service operations. KSB currently manufactures pumps and valves in 16 countries and has a total workforce of 15,455 employees. The company also has 170 service centres and has more than 3,000 service staff to provide inspection, maintenance and repair services worldwide.

The success of the company is founded on innovative technology that is the fruit of its own research and development program. KSB’s research centres, focus their efforts on hydraulics, sealing technology, materials development and the automation of pumps and valves. Highly efficient equipment, energy-saving motors as well as devices for the control and monitoring of systems and their components, ensure high overall energy efficiency.

KSB’s activities are aimed at ensuring high customer satisfaction, building stable business relations and achieving sustainable and profitable growth.

WEBSITE: www.ksb.com
We take purity to a new level

The Liquid Purification Technologies business unit (LPT) is one of the world’s foremost suppliers of products for treating water and other liquid media. We have nearly 80 years of experience in water treatment and are a leader in the development and production of ion exchange resins and iron oxide adsorbers. Furthermore, we are stepping up our involvement in our new field of business with reverse osmosis membrane elements.

With Lewatit® ion exchange resins and the new Lewabrane® membrane elements for reverse osmosis, we offer our customers two premium, perfectly attuned technologies.

While membrane technology is very cost-efficient for water with a high salt content, only ion exchange resins can purify water with low salt concentrations to the point where merely trace amounts remain. Our high-performance products are used in numerous industries. Leading fields of application include the generation and treatment of drinking water, but also the treatment of process water, other industrial water, and wastewater including acid mine drainage. Bayoxide® E adsorbers reliably remove arsenic, for example, from drinking water and wastewater.

We also offer our LewaPlus® design software, a free tool for planning and designing water treatment systems that incorporate reverse osmosis (RO) and ion exchange resins (IX).

WEBSITE: www.lpt.lanxess.com
Innovative water analysis – made in Germany

Since its foundation in 1986 LAR Process Analysers AG established itself as a leading manufacturer of analysis equipment for the determination of sum parameters in water – for online and laboratory use.

In reference to the direct dialogue with operators and end-users LAR develops and manufactures high-end technologies for the monitoring of contamination in industrial and municipal applications such as waste water, process water (cooling water, condensate return, boiler feed water etc.), purified water (pharmaceutical water) as well as in the field of environmental monitoring (surface water, river water). German and international industrial groups as well as municipalities are among our customers. A worldwide sales and service network with service hubs in Shanghai and Houston complement our headquarters in Berlin, Germany.

Based on patented innovative measurement methods LAR analyzers detect reliably the most significant sum parameters such as organic carbon (TOC) and bound nitrogen (TNb), biochemical oxygen demand (BOD), chemical oxygen demand (COD) as well as total phosphorous (TP) and the effects of toxic pollutants (toxicity). LAR’s product portfolio is rounded up by application-specific components and accessories as well as product-related services.

WEBSITE: www.lar.com

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Equipment for water analysis, measurement and control
Innovative and reliable dosing of liquids, gases and solids

Lutz-Jesco is a renowned German family-run company with a tradition of over 60 years. For many years, Lutz-Jesco has been operating worldwide, also in conjunction with Lutz-Pumpen, and is one of the leading international manufacturers of dosing technology for all media.

The product range of Lutz-Jesco GmbH includes, inter alia, dosing pumps in various variants, chlorine gas dosing devices from small to very large, measuring and control technology, chemical centrifugal pumps, dry material dosing devices, complete dosing and disinfecting systems, also customer specific, technologies for water and process water treatment such as softening, filter, ultrafiltration, reverse osmosis, ion exchange, electrolysis or electrode ionization systems as well as a comprehensive range of accessories for all product groups. High-quality drinking, swimming pool or process water as well as environmentally compatible waste water from the industry demands the highest precision, sureness and reliability of all components in the water circuit when monitoring and treating water quality.

Lutz-Jesco develops and produces in Germany, but also has branches and partners worldwide for installation, service and sales. For many years, the company has stood for innovative solutions in these areas. Lutz-Jesco is certified according to quality management ISO 9001: 2008 and environmental management ISO 14001: 2004.

WEBSITE: www.lutz-jesco.com
Coastal engineering, ports, scour and groundwater management

As a partner of industry, private investors and administration we solve complex problems for infrastructure development from basic evaluation and design to monitoring of the environmental impact – world-wide!

We provide the full range of applications from data acquisition to 3D hydronumerical modeling of longterm scenarios in a dynamic environment. Therefore, we have 30 years of experience and high-level equipment to measure and simulate all related parameters in 3D hydrodynamics, sediment transport and groundwater pollution.

We have our own fleet of fully equipped hydrographic vessels and a high-performance UNIX cluster known as one of the best world-wide for DELFT3D and VISUAL MODFLOW simulations.

WEBSITE: www.matheja-consult.de
The world’s leading network for environmental technologies

With a network of affiliated companies in Europe, Asia, Africa, and South America, as well as 70 international representative offices for more than 100 countries, Messe München is a global player. With IFAT as the World’s Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management, Messe München is sharing its success story: A strong trade fair and knowledge transfer through a high-caliber supporting and forum program, as well as the development of young professionals and specialists, characterize all IFAT trade fairs. In addition to its venue in Munich, IFAT is represented with its own trade fairs in South Africa, Turkey, India, China, and with a partnership in Brazil.

WEBSITE: www.ifat-worldwide.com
MICRODYN-NADIR – the source for clear solutions

MICRODYN-NADIR offers a comprehensive spectrum of membrane filtration solutions over a complete range of microfiltration, ultrafiltration, nanofiltration and reverse osmosis products and systems.

Membrane technology has advanced significantly in the last few years and has established itself to the benefit of many different sectors. During the last 50 years, MICRODYN-NADIR has gathered its customers’ trust with hard work and innovative membrane products like our BIO-CEL® module for wastewater treatment as well as with superior quality Membrane Bioreactor (MBR) technologies, like our BIO-CEL® MCP (Mechanical Cleaning Process). Moreover, MICRODYN-NADIR is a well-known and successful manufacturer of durable modules for industrial applications in markets, such as the Food & Beverage, Pharmaceutical and Chemical Industry.

Our AQUADYN® modules are encased ultrafiltration hollow fiber membrane modules which effectively reduce micro-organisms and suspended solids from water. The AQUADYN® series offers a comprehensive range of filtration modules for a wide spectrum of applications. Professional quality management at MICRODYN-NADIR, working closely with our R&D and experienced production staff in order to deliver the perfect membrane for any application, is the only way to meet those growing demands and stringent obligations.

WEBSITE: www.microdyn-nadir.com

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Flow and level measurement
and intelligent data handling

The NIVUS Group is a worldwide leader for measurement technology in clean and wastewater. Apart from developing, manufacturing and supplying the complete range of products for flow and level as well as the corresponding communication interfaces, we are also experts in the field of consulting and engineering.

Our application spectrum comprises flow and level measurement as foundation of hydrological model computing, process assessments and billing for
- Surface waters
- Hydropower and cooling water
- Irrigation
- Wastewater channel networks
- Water supply

NIVUS have been certified according to ISO 9001 since 1995 and ATEX since 1999. Since then, ISO 14001 certification, the M-CERTS certificate and the IECEx scheme have been added. The company head office is located in Eppingen/Germany. With 9 international subsidiaries and more than 40 distributing partners worldwide the company acts on a global base.

> WEBSITE: www.nivus.com
Sustainable solutions for water & sanitation

p2m berlin GmbH is a consulting and engineering company which offers expert services in the water and sanitation sector, covering all project stages from feasibility study over design to construction supervision. Within their projects, p2mberlin implements the sustainable engineering knowledge of 150 years in water supply and sanitation operation of the entire Berlinwasser Group, and therefore offers appropriate solutions to national and international markets.

Our core competences comprise consulting services including financial, time and quality management, design, tendering, site supervision and commissioning of infrastructure as well as training and technical advice on operation & maintenance. As an independent consultant company with no obligations towards manufacturers, p2mberlin is a reliable and responsible partner who gives priority to clients’ interests.

Our multi-national staffs consist of experts from a wide range of technical disciplines and offers their expertise in the fields of:

› Water and Wastewater Engineering: technical know-how and state-of-the-art technological standards in order to provide best practice solutions in drinking water supply and wastewater management.
› Civil Engineering: engineering expertise and many years of experience to realize building construction, architecture and infrastructure measures.
› Project Management: tools to ensure a customised and optimised project process that meets all deadlines and financial requirements of clients.

WEBSITE: www.p2mberlin.de

Feasibility study, design & tendering, supervision and support O & M

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Reliable drinking water supply in rural areas

PAULA – a stationary drinking water system – was engineered mainly in order to provide the population of developing and emerging countries with drinking water. The technique of the plant is being based on the principle of “Ultra Low Pressure Ultra Filtration” (ULPUV) with a pore width of 20 to 100nm. A flat membrane constructed in Germany is part of the system. Assuming the membrane will be treated properly a life span of 10 years can be expected. It is possible to extend the basic model with a capacity of 4,000 l/day (24 hours) by a factor of 4,000.

The biggest plant which has been put into operation so far has a production capacity of 24,000 l/day. The system in question is powered by solar cell panels. PAULA is able to work either by usual decline/hydrostatic pressure or by application of a small pump. The consumption of electric power is marginal. The electric power can be injected by a solar power system. PAULA’s cleaning quality particularly with regard to viruses is 99.9999% (equivalent to a logarithmic removal value up to 6 – LRV6). If necessary or wanted (in case of stipulations by authorities) a chlorination process can be added in order to keep the treated water clean during storage. It is possible to build the plant on a small platform of resistant wood or made of concrete.

WEBSITE: www.paula-water.com

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Stationary drinking water system that is capable to supply drinking water around the clock
Consulting & operating in one hand

We are a specialized consulting company in the field of water supply and sanitation with the particular focus on water utility advisory and training as well as operations and maintenance (O&M). Our company is based in Leipzig and operates worldwide. Whereas Sachsen Wasser has been founded in the year 2000 as a 100% subsidiary of the municipal water and sanitation utility, one of the largest in Germany, but since 2015 we operate as an independent consulting and operating company.

Our experts count with proven transformation and change management expertise, based on first-hand experience in evolving utilities from a formerly inefficient, overstuffed and subsidized political institution to modern, market- and customer-faced service companies with process-driven structures and state-of-the-art management tools.

SaWa offers services in operation of water and sanitation systems but we have also a long track record of successful international consulting and training projects to strengthen ministries, municipalities and utilities in institutional, commercial, financial and technical issues, with focus on O&M, energy efficiency and climate change adaption, to improve the resilience in the region. Therefore a strong stakeholder involvement and customer relation is our basis.

We have implemented numerous projects for utilities in Central/East Asia, the Middle East, Latin America, South-Eastern Europe and Africa, especially in Tanzania, Ethiopia and Kenya.
Consulting for electrical equipment, SCADA

Dr. Scholz & Dalchow GmbH Consultant Engineers are experts of electrical equipment and automatic control systems of systems of wastewater treatment, treatment of potable water, sludge treatment and all systems (conventional and also regenerative, like wind, solar, motorgenerators) of energy supply including automatization, control, monitoring of such processes with a considerable experience the design of municipal waste water and potable water systems in Germany, south east Europe, the middle east and South America. The company has been involved in international teams in the development of waste water and potable water treatment and discharge strategies in order to identify the most suitable solution for the client with respect to the respective local regulations and in particular with view to the biggest possible efficiency in terms of cost aspects.

Dr. Scholz & Dalchow GmbH has more than 25 years’ experience in electrical engineering as well as detailed design and tendering in more than 40 projects comprising the construction of new as well as the extension of existing WWTPs, in sewerage projects and also in projects of potable water treatment. Here they worked like members in a lot of different national and international consulting teams for international donors such as World Bank, EU or German KfW either in a project team of different Consulting Partners or under joint ventures or subcontracts to other companies.

› WEBSITE: www.scholz-dalchow.de
SebaKMT is a leader for innovative water monitoring solutions and leak detection products. For over 60 years SebaKMT has been a reliable partner to many customers throughout the world. The easy to use and well-designed products convince with accuracy and ruggedness. Best rated customer support within the water supply and distribution industry is the result of a very well spread out international sales and support network.

WEBSITE: www.sebakmt.com
The Sewerin group of companies is an internationally successful, family owned group with its headquarters in Gütersloh, Germany. The core business is the development, production and global distribution of electronic measuring equipment for the gas and water supply and distribution industry. In the water segment Sewerin is offering products for the professional water leak detection especially electro-acoustic devices, noise logger, correlators and devices for tracer gas detection and flow analysis.

» WEBSITE: www.sewerin.com
Tradition and technology since 1883

A warm welcome to STÜWA: As a family-run business we are a leading manufacturer of high-quality well-construction technology we are able to look back on over 130 years of Made in Germany experience and expertise in the production of well screens. We produce well screens in PVC/steel and stainless steel, as well as geothermal products and drilling accessories. Based on intensive consultation and cooperative exchange of ideas with our partners, the optimal complete solutions is always found.

WEBSITE: www.stuewa.de
Biological decentralized wastewater treatment plants

TKM TurnKey Management GmbH develops and sells plants and technical equipment for biological wastewater treatment (decentralized wastewater treatment, sewage treatment plants) and drinking water treatment in over 20 countries with a focus on Europe, Central- and South America and Africa. We use proven technologies made in Germany. Innovations and further developments take place in an own engineering company belonging to the group.

TKM offers solutions for faecal disposal where flush toilets already exist or are planned. Decentralized, purely biological wastewater treatment plants offer great flexibility in terms of plant size, performance and site conditions. The technology is scalable from the smallest systems for individual families or individual houses to systems for smaller and larger settlements, cities and communities, schools, hospitals, hotels and businesses. TKM also offers solutions for process water circuits and industrial wastewater treatment as well as biological processes for water remediation (ponds, lakes).

Together with our partners with many years of experience, we provide an extensive product portfolio in the areas of technical-physical water treatment and processes with special chemicals and technologies on a biological basis for drinking water treatment. We guarantee a solution tailored to individual and industry-specific customer requirements. TKM offers technology transfer and strives for cooperation with companies from the respective region.

› WEBSITE: www.turnkey-management.de
Institut IWAR – chair of water supply, groundwater protection

The Chair of Water Supply and Groundwater Protection is part of the Institute IWAR at the Faculty of Civil and Environmental Engineering of the Technical University of Darmstadt. The institute IWAR unites the areas of water supply and groundwater protection, wastewater engineering, wastewater management, material flow management and resource management as well as spatial and infrastructure planning. By integrating different disciplines, the Institute IWAR contributes to knowledge-based and practice-oriented solutions for both subject-specific and complex, interdisciplinary tasks in environmental and water protection. The Chair of Water Supply and Groundwater Protection currently has the following applied research areas:

Simulation of flows (CFD) to optimize and increase the efficiency of water/wastewater systems, optimize the management of water distribution systems, resource management (IWRM), water extraction and well management, development and improvement of water treatment techniques, analysis, assessment and tools for adaptation to sustainable water supply systems. The research, consulting and development aims at:

› the computer-aided modeling of processes
› the economic optimization of processes
› the development of process and process alternatives
› the application of innovative, adapted process technologies

› WEBSITE: www.iwar.tu-darmstadt.de/wv
Disinfection for safe drinking water

Who we are? UST Umwelt-Systemtechnik is a small and innovative firm established in 1991 in Gera/Thuringia.

What we do? Design and production of water treatment devices.

What is our product? PURE! The first PURE devices were manufactured in 2004, since then over 15,000 devices of various dimensions have been installed all over the world.

How does it work? PURE devices use ultraviolet rays to disinfect water, eliminating safely microorganism such as bacteria, viruses and algae. This physical method does not require the addition of chemical toxin and is therefore safe, environmentally friendly and low in maintenance cost.

How much can it take? The range that can be processed by PURE starts at 0.3 m³/h up to 20 m³/h. PURE capacity can be extrapolated by connecting various devices.

PURE is the solution for? PURE is the perfect fit for biologically compromised water that requires disinfection. Amongst many other it is used to disinfect water extracted from springs, water wells, rivers and collection containers.

WEBSITE: www.ust-gera.de

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Design and production of PURE devices for water treatment with ultraviolet radiation (UVC)
Innovative measurement technology

VEGA Grieshaber KG is a world leader in the area of level, switching and pressure measurement. The company employs over 1,400 people worldwide, 660 of whom work at its headquarters in Schiltach in the Black Forest. This is where, for almost 60 years now, solutions to demanding measuring tasks are being conceived and brought to realization. VEGA is active in over 80 countries with its globe-spanning network of subsidiaries and distributors. The company and its products have all the necessary certificates and approvals for worldwide application. This applies to the technical safety as well as the quality of the products and services.

Drinking water is a valuable asset. The treatment of wastewater is just as important as the monitoring of drinking water supplies. VEGA provides the instrumentation for level, switching and pressure – perfectly adapted to the requirements of the water and wastewater sector.
Energy efficient pumps & pump systems

Founded in 1872 in Dortmund, Germany – Wilo is one of the leading manufacturers of pumps and pump systems for water supply, sewage disposal, wastewater treatment, ventilation, heating and air conditioning. WILO SE has its focus mainly on Smart Urban Areas, considering the fields of Energy Efficiency, Water Management and Digitalization.

Special pumps and components for water purification systems capable of handling the many different water compositions in the areas of water supply and pressure boosting, fire fighting systems, desalination, professional irrigation/agriculture as well as wastewater collection and transport, sewage treatment, drainage and flood control. Furthermore, Wilo offers a wide variety of smart and energy efficient pumps and systems suitable for family homes and for public and commercial properties for cold and hot water supply. With 17 production sites in 9 countries and represented in more than 90 countries worldwide Wilo has achieved global presence.

With Wilo Zambia in Kansenghi we are locally present. In 2017 the turnover was 1,424.8 Mio. Euros. The number of employees was more than 7,700.

WEBSITE: www.wilo.com