



Water Industry in Berlin

Pursuing innovation throughout
the hydrological cycle



Rainwater tank by LURITEC



Berlin companies at the 2015 WASSER BERLIN INTERNATIONAL trade fair

Companies

3s sensors systems solutions
 ABW oikoartec
 AGO Hydroair
 AKUT Umweltschutz Ingenieure Burkard und Partner
 akvola Technologies
 Asbrand HYDRO Consult
 Barnim Handelsgesellschaft
 Berliner Wasserbetriebe
 bdh-consulting
 Blue Biolabs
 Bosman Watermanagement
 Clean-Rohr Service
 confideon Unternehmensberatung
 Delta Umwelt-Technik
 DHI-WASY
 Döbelt Datenkommunikation
 Dr. Ing. Pecher und Partner Ingenieurgesellschaft
 E&P Anlagenbau
 ENTERPRISE Bau Technik Umwelt
 Ernst Augustin
 FLEXIM
 Frank Pogade Consultant Water & Environment
 fibrisTerre
 G.U.B. Ingenieur
 geotec Rohstoffe
 Glaubrecht Pumpen-Service
 GUS Geo- & Umweltservice
 Harbauer
 HeGo Biotec
 Henning & Quade Berlin
 Hyder Consulting
 HYDOR CONSULT
 Hygiene-Institut Berlin Search Care
 IBB Ingenieur- und Beratungsbüro für Brunnenbetriebstechnik und -instandhaltung
 IMAGO Umwelt Consult
 Industrial Water Consulting Berlin (IWC Berlin)
 Ingenieurbüro Klenke
 Ingenieurbüro Klutke
 Ingenieurbüro Obermeyer
 Ingenieurgesellschaft Prof. Dr. Sieker
 ifs Ingenieurgesellschaft für Stadt-hydrologie
 inter 3 Institut für Ressourcenmanagement
 Jungk Consult
 KKI – Kompetenzzentrum Kritische Infrastrukturen
 KMG Pipe Technologies
 Köster Umwelttechnik
 Landschaft planen + bauen
 LAR Process Analysers
 LURI.watersystems
 MARTIN Membrane Systems

Berlin, with its lakes, rivers and canals, is a water-rich city. It's these special natural conditions that make it possible for this big city to supply its drinking water needs from its own regional resources and feed waste water back into the local water supply once it has been properly treated. But this sort of recycling is only feasible thanks to a complex and technically sophisticated system of water management that ensures both quality drinking water as well as very clean bodies of water.

A broad range of services

The companies associated with the Berlin water management network have extensive know-how in the areas of groundwater and drinking water management, waste water disposal, surface water and rainwater management, as well as modeling, pump technology and measuring technology.

Berlin has a sewer network consisting of 154 pumping stations, roughly 9,600 km of sewer canals and approximately 1,170 km of penstocks. Over the last 150 years, Berliner Wasserbetriebe (BWB) has been managing this highly complex supply and disposal system on behalf of more than 3.7 million people in the metropolitan Berlin area while continuously developing needed technologies.



»The Technische Universität Berlin has brought together its water-related expertise to focus research on issues relating to 'Water in Urban Areas.' The university serves as an outstanding scientific partner in numerous collaborative efforts relating to water resource management in Berlin.«

Prof. Dr.-Ing. Paul-Uwe Thamsen
 Head of Department of Fluid System Dynamics
 TU Berlin



»Berlin's connection with water is unique: A water cycle that is unparalleled in Germany makes it possible to supply more than 90% of the city's drinking water needs from sources within the metropolitan area. Berliner Wasserbetriebe supplies the city with water and disposes of wastewater. Work with other stakeholders has led to a variety of innovations to the water system in Berlin.«

Jörg Simon
 Chairman of the Board
 Berliner Wasserbetriebe

In addition to the central water system, the system provides a wide variety of decentralized and semi-centralized technical solutions. These include intermediate storage of rainwater and sewage, recycling of industrial waste water and special procedures for protecting drinking-water quality in transmission lines with significantly lower levels of consumption.

Numerous examples of best-practices are already being applied in the Berlin metropolitan area, such as »offshore« mixed water storage in the Spree River, the use of retention soil filters for rainwater treatment, or the many grey-water recycling and rainwater harvesting systems installed in homes and offices.

Interdisciplinary research

Berlin universities and research institutions are important partners for companies working in the field of water management.

More than 20 institutes in six departments are combining their diverse areas of expertise to carry out research focused on »water in urban areas« at the TU Berlin in pursuit of a forward-looking approach to urban water management. This work concentrates on technical innovation and analytics, as well as on economic assessment and international education.



The Berlin Aquatic Research Institute – IGB is using its Lakelab to explore the effects of global environmental change on lakes.

- Berliner Wasserbetriebe (BWB) is the largest water utility in Germany.
- WASSER BERLIN INTERNATIONAL is the largest domestic trade fair for water technology.
- Broad array of technologies from a variety of innovative medium-sized companies
- Multidisciplinary and internationally oriented research landscape
- Comprehensive network with excellent opportunities for collaboration

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) is Germany's largest research center for inland waters. It combines basic with applied research, trains young scientists and advises policy-makers as well as the general public on matters relating to sustainable water management. Research priorities include the long-term development of lakes, rivers and wetlands in the face of rapidly changing environmental conditions, the restoration of ecosystems, the biodiversity of aquatic habitats, and resource-efficient aquaculture.



of numerical models. The city of Berlin itself seeks and drives advanced solutions and hence is attractive for highly qualified employees.«

Dr. Richard J. Vestner
DHI Executive Vice President EUROPE
CEO DHI-WASY GmbH

»Inventive and IT-heavy, Berlin provides a stimulating work environment and a rich breeding ground for innovation. DHI champions the »Water 4.0« vision towards digitization and automation throughout the water cycle by means

The Kompetenzzentrum Wasser Berlin (KWB) is an international center for water research and knowledge transfer. As a non-profit organization, KWB links together the research activities of Berlin's universities and research institutes, the Berlinwasser Group, Berlin-based SMEs, the city administration, and Veolia, an environmental services company.

The AQUANET network currently brings together 33 small and medium enterprises and research institutions that are working in the Berlin-Brandenburg water resource sector in order to implement research and pilot projects in smart water infrastructure systems.

A well-functioning network

In a sector made up primarily of small and medium-sized firms, creating a close network among companies and between business and science is an important factor in achieving success.



the company early in their careers. Besides that, Berlin is of course one of the country's most attractive cities in general and offers a great quality of life.«

Daniel Crawford
Chairman of the board
AQUANET

»For us as a mid-sized company, one of Berlin's key advantages is that we have no problems finding good employees. We have a direct line to colleges and universities and are able to bring interns and students currently working on their Bachelor or Master theses on board

e.qua is a network of companies and operators in the water management sector and focuses on the issues of energy efficiency, energy recuperation and resource management. e.qua brings together private enterprises, the science community and policy-makers – with the goal of improving the energy situation for operators and helping the industry to tap into markets and customers. With more than 60 members and partners nationwide along with a large number of projects, e.qua has managed to establish itself as a catalyst and driver of innovation at the interface between water and energy.

Merkel Ingenieur-Consult
MOL Katalysatorteknik
Müller – Kalchreuth Planungsgesellschaft für Wasserwirtschaft in Berlin
newtec Umwelttechnik
Nico Andritschke – Biologische Kläranlagen und Regenwassersysteme
Nolde & Partner Innovative Wasser-konzepte
OWB Ingenieure
P.I.E.SCH. Unterwasserarbeiten
p2m berlin
Palmetto Clean Technologies
PESCHEL Ökologie und Umwelt
PNT-SYSTEMS
Sachverständigen Büro Dr. NERGER
Schulze-Matthes-Ingenieure/Landschaftsarchitekten
SLM – Speziallabor für angewandte Mikrobiologie
synlab tesdolo service
Technocon
TBS Rinne
Umweltbiotechnik-Berlin
Urbanski Ingenieur Consult
Veolia
WESSLING
WILO
Würdig-Pumpentechnik
Zech Water Technology
Züblin Wasserbau

Research
Beuth University of Applied Sciences Berlin
Freie Universität Berlin
• Hydrogeology
Humboldt Universität
• Urban Ecophysiology of Plants
• Water Engineering Lab
KompetenzZentrum Wasser Berlin
Leibniz-Institute of Freshwater Ecology and Inland Fisheries
Technische Universität Berlin
• Research network »Water in Urban Areas«
• Chair of Water Resources Management and Modeling of Hydrosystems
• Chair of Environmental Process Engineering
• Chair of Environmental Microbiology
• Chair of Water Quality Control
• Department of Fluid System Dynamics
• Department of Urban Water Management

Networks, associations

AQUANET Berlin-Brandenburg
e.qua
German Water Partnership

Our aim: your success!

Today, Berlin is a business hub of international standing. The capital city is growing at a much faster rate than the rest of the country. More and more companies are seeing opportunities for themselves to become part of this success story.

We can help you.

Berlin Partner is the central point of contact for economic development in Berlin. We support you with setting up business, corporate development and technology transfer.

This one-stop service means shorter distances and faster decisions for you. So you can concentrate on what is essential: your business goals in Berlin.

We consistently focus on our clients' needs. We support companies at every stage of their growth. From business plans, founding, financing and selecting a location to innovation consulting and personnel recruitment all the way to tapping new international markets.

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