



## 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 Ingenieur-gesellschaft  
 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 Ressourcen-management  
 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.



relating to water resource management in Berlin.«

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

»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



**Jörg Simon**  
 Chairman of the Board  
 Berliner Wasserbetriebe

»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.«

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  
Wüdig-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.

Reach out and contact us!

[www.businesslocationcenter.de/energytechnologies](http://www.businesslocationcenter.de/energytechnologies)

Follow us on Twitter!

 [@BerlinPartner](https://twitter.com/BerlinPartner)



Berlin Partner for Business and Technology  
Fasanenstraße 85  
10623 Berlin  
[www.berlin-partner.de](http://www.berlin-partner.de)

Contact: Wolfgang Korek  
Tel +49 30 46302-577  
[wolfgang.korek@berlin-partner.de](mailto:wolfgang.korek@berlin-partner.de)

**Publisher:** Berlin Partner für Wirtschaft und Technologie GmbH commissioned by the Berlin Senate Department for Economics, Technology and Research.

Photos: Cover: Berlin Partner/Wüstenhagen, Inside: LURI/Flechtsenhar, BerlinPartner/PedroBecerra, M. Oczipka IGB/HTW Dresden

Design: Büro Watkinson, Berlin  
Production: Laserline, Berlin, © February 2016