

global water tech hub alliance

*"Accelerating the application of innovative
water technologies around the world"*

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The Northern Netherlands Provinces (SNN)

Investing in your future: Water Alliance is part-financed by the European Union, European Regional Development Fund and The Ministry of Economic Affairs, Peaks in the Delta

About the Global Water Tech Hub Alliance

Established in September 2018, the Global Water Tech Hub Alliance was set up to foster international collaboration between regional hubs of water technology innovation. It is an open platform that helps match specific water challenges with solutions from around the world. The alliance works in two directions: supporting locally developed innovations in reaching out to foreign markets; and helping those seeking solutions to tap into a global pool of innovative technologies.

Accelerating the application of innovative water technologies around the world by collaborating globally in the following action areas:

Action Areas



1) DEFINE NEEDS

Identifying local water challenges and calling for solutions



2) FIND INNOVATION

Scouting and review of innovative technologies according to common criteria



3) SHOW OPPORTUNITY

Sharing business possibilities and bringing stakeholders together for collaboration



4) VERIFY PROPOSALS

Identifying technical and business experts to assist with the advancement of member programs



5) DEVELOP TALENT

Supporting the exchange of human resources for innovation and sharing educational programs



6) SHOWCASE SUCCESS

Promoting the best innovative new technologies of water hubs on a global stage

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Water Alliance, the Netherlands

Water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in water technology in the Netherlands. The Water Alliance focuses on innovative and sustainable water technology that can be used worldwide. It brings together a complete chain of innovation for water technology, from first idea, research & development, specialised laboratories, a water application centre, various demosites, launching customers to international applications with commercial companies. Indeed from knowledge to business. It is driven by the idea that technological development and innovation is needed to develop new markets and thus create

new business opportunities for the water technology industry.

Do you have a specific challenge in water tech or would you like to accelerate your innovative water technology business within Europe? Get in touch with Water Alliance and the partners of WaterCampus Leeuwarden.

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Innovative companies

D2D Water Solutions

D2D Water Solutions has developed the Drop2Drink unit that purifies rainwater into drinking water. Individuals can use this at home. The innovative aspect of this solution lies in the smart application of high-quality purification techniques in combination with intelligent control. As a result, microbiological water safety is always guaranteed. Moreover, the Drop2Drink unit is plug & play: it is easy for everyone to install, use and maintain.

Drop2Drink addresses the enormous social issue of water shortage. Already 2 billion people worldwide have a shortage of clean and reliable drinking water every day. The unit makes it possible to make people more self-sufficient for their drinking water supply. This is necessary in countries where the infrastructure for drinking water is insufficient and / or where water scarcity is caused by dehydration of natural resources.



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Hydraloop Systems B.V.

Hydraloop Systems is committed to empower people to save water and energy by offering smart and affordable water recycle products.

Due to climate change, pollution and world population growth, there's an increasing demand in freshwater but decentralized water recycling can substantially curb that growing demand.

"We have created a simple solution for this: the Hydraloop. A world product and first of its kind: a next generation, smart & compact, game changing residential water recycle system that is stylish and uses patented and breakthrough technology. It recycles 85% of domestic water." Hydraloop cleans & disinfects shower, bath & washing machine water so it can be reused for toilet flushing, washing machine, garden or pool. "We have a vision that in 20 years' time no house will be built without its own greywater recycling system." Hydraloop is award winning, certified (without using filters/membranes/chemicals) and awarded the international quality label 'Efficient Solution'.



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WaTech® Center Mekorot, Israel

The WaTech® (Water Technologies Entrepreneurship Center) was established by Mekorot, Israel's national water company, in order to provide a response to the world's water supply challenges. WaTech® offers a unique and comprehensive platform in the following fields: Water quality, desalination, wastewater treatment and effluent reuse, water safety, engineering services, models for optimized water system operation and management, digital and cyber security.

These advantages provide a broad platform for the activities of WaTech® in four major areas: Business Ventures and Collaborations; Applied Research; Intellectual Property Development and Patenting and Information Management.

Mekorot is in its final stages of establishing an innovation lab that will widen Mekorot support and investment in start-up companies.

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Innovative company

AquaHD

AquaHD was created when 2 veterans of the water industry combined with an expert in computerized fluid dynamics to solve a 4000 year old problem – how to effectively remove solids from water. AquaHD's unique hydro dynamic separator allows for effective water treatment requiring small footprint and simple operation. Implementation of the AquaHD will revolutionize the water treatment industry.

AQUA HD's separation technology is equipped to deal with heavy loads of soil, eliminating of impurities in just one stage with no reduction in efficacy. This compactness and low footprint is very important for water treatment system in urban areas. The solution is designed as 'plug and play' technology with no moving parts which ensures low maintenance.

AQUA HD
SEPARATION & FILTRATION SYSTEMS
Member of the Filtersafe Group

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Singapore Water Exchange (PUB Singapore)

Singapore Water Exchange (SgWX) is a dedicated space to further the growth of the vibrant and dynamic water industry in Singapore. Launched in July 2018, SgWX is a specialised development designed to provide an integrated and conducive environment for water companies to operate and collaborate. It houses a vibrant ecosystem of water-related companies to leverage on mutual strengths and potential synergies to push the frontiers of water innovation and business growth.

SgWX is managed by PUB, Singapore's National Water Agency, and is strategically located at the heart of Singapore's water industry. As an incubator of water technology innovation, the 6-story building offers future-ready features for companies to build their businesses and tap into

the growth opportunities in the region.

SgWX offers a wide spectrum of workspaces to exchange ideas and build capabilities, and is a one-stop business centre with a network of partners to support businesses' growing needs. It hosts water-related activities that convenes like-minded professionals to build networks and forge partnerships. To date, twenty one water-related companies from seven different countries are part of this collaborative ecosystem.

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The Korea Water Cluster, Korea

The Korea Water Cluster(KWC) opened in July 2019, providing integrated services to companies which demanding demonstration facilities and test-bed for their technologies and/ or products. In line with that level of technical support, identification of business opportunities or expansion to global new markets and market analysis information will be provided by KWC. In addition, water convergence R&D issues will be managed and shared with companies.

KWC is located in the southern part of Daegu Metropolitan city with the area of 650,000m² surrounded by industrial complex. The demonstration facilities such as water purification & reuse, sewage treatment and examinations for water quality control are installed and constructed in the cluster. Furthermore, the

demonstration facilities would be given to the demanding companies or organizations for their own examination at no cost. It called 'User-customized zone'. The water convergence R&D centre is also providing material test of invented products and its analysis service.

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Innovative company

RIO Energy Co., Ltd.

RIO Energy Co., Ltd. is a company that manufactures flow-type Micro Hydropower facilities and produces electricity. The main project is a new and renewable energy business that generates high profits by installing flow-type Hydropower generation facilities at the location where water flows.

Rio Energy's main product is named RIO SET. This facility produces electricity, only using the amount and speed of water flowing without falling off. It mainly produces facilities below 100kW. The key components include the Power Turbine, Turbo Generator and Water Cone,

all of which are manufactured and operated together. When water passes through a flow introduction system, kinetic energy made from flow and flow rates rotate the turbine in the facility. Its rotational power is transferred to the generation through the powertrain, and the rotor motion of the generator produces electrical energy.

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RIO ENERGY

The Water Council, United States of America



The Water Council is a non-profit organization dedicated to solving critical global water challenges by supporting innovation in freshwater technology and driving those new solutions to the industries that need them.

Headquartered in Milwaukee, Wisconsin, USA next to the world's largest freshwater system and home to one of the most influential freshwater technology hubs in the world, The Water Council (TWC) is recognized as a global center for advancing water technologies and stewardship.

At its heart, TWC is a non-profit, membership organization that connects, convenes and showcases the hub comprised of more than 238 water technology businesses and the diverse

water leadership network of 200 members it is linked to from around the world.

While TWC's mission is centered on driving economic development, attracting and connecting worldclass talent and supporting water-focused technology innovation, its larger goal is to help secure freshwater resources for the world by driving solutions to the numerous industries that need and use a large amount of water.

TWC achieves its goals through convening global water leaders and water-users, showcasing and supporting its members and offering more than a dozen initiatives designed to provide



resources, programming and networking opportunities to businesses, engineers, entrepreneurs, utilities, government agencies, academia and NGOs. Established in 2009, the driving force behind The Water Council's success is the vibrant spirit of collaboration between public, private and academic sectors with a strong, shared commitment to finding new solutions to critical global water challenges.

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The Jiangsu Hub, China

The Jiangsu Hub is located in the Yangtze River Delta region, which is one of the three most developed regions in China and home to the waste water treatment industry of the country. The Jiangsu Hub focuses on acceleration of water technical innovations onto the (inter) national market, through a demand driven approach embedded with various levels of piloting and demo. The hub has partnerships with a number of local hubs in the Yangtze River Delta region, by teaming up with them in order to address to dozens of leading environmental companies, institutes, governmental agencies as well as 500+ SMEs.

The hub also has access to a number of municipal/industrial/hazard waste treatment facilities where pilots and demos at different scales can be implemented in real time

application scenarios. In addition, Jiangsu cooperates with various top technical platforms, equipped with 2000m² in-house piloting facilities and 40+ engineers/technicians specialized in equipment customization, executing pilot/demo projects and engineering scale up. This makes the Jiangsu cluster unique in incubating technical businesses in China. They are considered the bridge to China for small and medium international technical companies in the waste water treatment sector.

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Jiangsu Water Tech Cluster, China



Innovative companies

Jiangsu Benenv Environmental Technologies Co., Ltd.

Jiangsu Benenv Environmental Technologies Co., Ltd. is an expert on wastewater treatment and solid waste resource utilization solutions. With a production-manufacturing plant in China and a research-development center in Japan (Kanazawa), Benenv focuses on providing clients integrated solutions from design, research, and manufacture to BOT/EPC engineering.

The company's products vary from membranes, sludge dewatering/drying, incineration carbonization to fermentation and composting. Meanwhile, Jiangsu Benenv Environmental Technologies Co., Ltd. is working closely with top universities and government organizations in both China and Japan.



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Scinor

Scinor is a leading global Thermally Induced Phase Separation (TIPS) PVDF UF membranes manufacturer. Scinor provides the hollow fiber membranes, modules, systems and plants used for nearly any applications. The core of all of these offerings is the PVDF Ultrafiltration hollow-fiber membrane, created with a patented TIPS process. These offerings along with their broad engineering and service expertise provide the best overall value to customers.

"Scinor isn't your typical ultrafiltration company—we work directly with customers, providing personalized service and a long-term commitment to help them optimize their plant's operations. Our cost effective, state-of-the-art TIPS membranes are at the heart of our offerings."



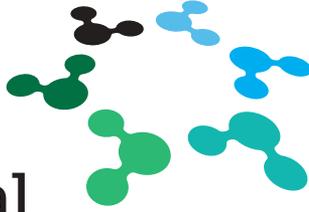
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global
water tech hub
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work with us

The Global Water Tech Hub Alliance is always open to discussing any form of cooperation. Should you be interested in having more information, please contact us via the details below.

 www.gwtha.com

 [global-water-tech-hub-alliance](https://www.linkedin.com/company/global-water-tech-hub-alliance)

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

Haven't seen enough trends, developments and technologies yet?

Make sure to pay a visit to the Holland Innovation Park (HIP) at booth 11.404; the place where you will be immersed in the latest innovations from relatively young, but promising companies from the Netherlands in the field of water tech.

**holland
innovationpark**
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