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# DUTCHWATER

## *Sector*

20182019

- > Urban resilience
- > Cutting edge water technology
- > Financing water challenges

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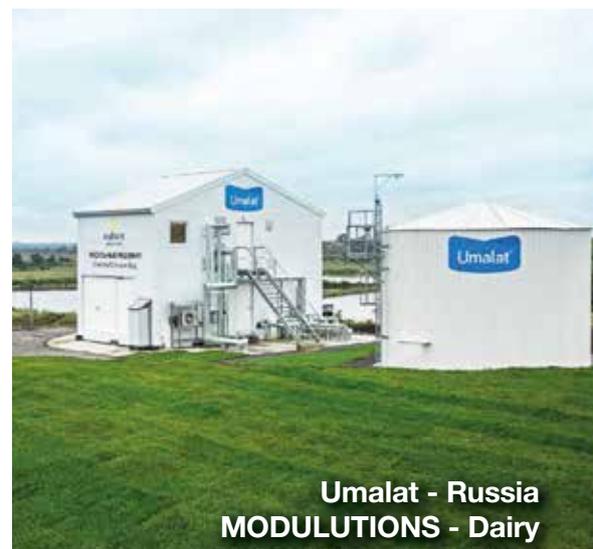
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# Contents



8

> Finance for water



11

> Urban resilience



14

> Water technology



16

> Global water challenges, joint solutions



38

> Largest water electrolysis factory  
Greens Chemicals Sector



42

> Dredging in turbid water



48

> The Netherlands and Singapore  
jointly seek circular solutions



55

> Index of adresses

## Company profiles

Aquatech Global Events	30
BT Projects	32
Deltares	28
Dutch Marine Energy Center	26
Dutch Water Authorities	25
Landustrie	33
Rohr-Idreco	34
Royal Eijkelkamp	24
Sweco	31
Twynstra Gudde	20
Water Alliance	22
World Water Academy	23

## Dutch Water Sector partners

Amsterdam International	
Water Week	72
Cabot Norit	52
Colubris	41
Van Essen	35
Van Heck	18
Van den Herik	54
IHC Merwede	6
IRC	47
JLD	45
LeAF	46
Logisticon	56-70
Nijhuis Industries	2
Van Oord	36
Paques	53
Royal HaskoningDHV	75

2018

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# DUTCHWATER

## Sector

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**W**ater touches upon all major issues of our time; climate change, security, energy supply, poverty, population growth, agriculture, food, urbanisation, migration. Even political conflicts are often related to water.

The climate crisis is in fact a water crisis. Houston, Bangladesh, and Sierra Leone demonstrate the urgency of the increasing challenge. And in all these challenges, water as a connector is also our biggest opportunity to help mitigate these challenges and create sustainable solutions. The Netherlands, as a water nation, is obliged and more than willing to share its expertise and collaborate with the rest of the world.

Climate refugees are water refugees and according to the United Nations, we already have 140 million refugees worldwide and it will be 300 million people by 2050 if we do not act now. A radical increase in water and sanitation investments is required to finance the Sustainable Development Goals, according to the UN-Water GLAAS report released in 2017. The World Economic Forum has identified the water crises as the biggest threat of this decade. Fortunately, more and more countries and organisations recognise the urgency of the problem, as well as the opportunities, since water is never only despair. Water connects all challenges and opportunities. Water is the leverage for real change if it is understood, valued, and managed effectively.

The Dutch want to strengthen their collaborative role in the world to increase water awareness and understanding, and help build and invest in sustainable and innovative water solutions worldwide. The Delta Coalition and the high level Panel on Water are good examples of our

# Preface

## Water as leverage

ambitions. As Special Envoy for International Water Affairs for the Netherlands, I travel the world to forge these partnerships, to show investors and politicians a world of possibilities and solutions, and help these become a reality. When it comes to tackling water challenges, the Netherlands feels a responsibility to help lead the way. Water is who we are – it is our past, present, and future. Our country, a highly urbanised river delta with three major rivers flowing out into the sea and where we face flood risks every day, is the safest river delta in the world. We have invested in water safety and security for over 1,000 years. Each household in our country enjoys 100% chlorine-free and the best tasting drinking water from the tap. As this publication shows, the Netherlands has excellent water expertise, innovative technologies, and the will and capacity to collaborate.

And this is the key: if we all work together, we can meet the Paris Climate Agreement ambitions and realise the Sustainable Development Goals. The power of cooperation is the essence of our own Dutch water culture, which keeps our country safe and inspiringly planned. This culture of collaboration, with international and local partners all over the world, is essential to develop and implement smart and sustainable solutions everywhere and for everyone.

The current worldwide water challenges cannot be tackled by individual countries or organisations. We need international cooperation, smart partnerships, new ways of investing, and financing. But above all, we need the courage to act. It is not just about technology, it is about us: we are, as international water experts and leaders, the ones that must take up this challenge. So let's work together. It will be amazing if we do!



**HENK OVINK** *Special Envoy for International Water Affairs for the Kingdom of the Netherlands, and Sherpa to the UN and World Bank high level Panel on Water*

# **TOGETHER WE CREATE** **TOMORROW'S MARINE** **TECHNOLOGY**



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# Dutch water themes

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**A dazzling amount of 7,500 billion dollar is needed between now and 2030 to realise the necessary infrastructure to protect the world's population from too much, too little, and too polluted water. This amount however does not even include capacity building and good governance. 1,200 billion dollar will not be available if current trends continue. Water projects are disproportionately financed with public money. The future worldwide water challenges will never be met by the public sector alone, certainly not in upcoming markets.**



# Finance for water

DUTCH WATER THEME

## Bridging the gap between water and finance

More and more financiers are interested in investing in water, because of the following reasons:

- Return on investment: Considering the loose monetary policy, interest rates are low and a lot of money is available for profitable investment opportunities. The abundance of capital will probably last and every opportunity that occurs for alternative ways to invest therefore has the investors' attention. Water will thus become an interesting
- Impact: Society increasingly expects financial sector investments to have a positive impact on both society and the environment. Financing water propositions brilliantly meets this requirement.
- Risk: Due to climate change, companies around the world face operational risks such as droughts, floods, and water supply variability, which can affect their bottom lines. Banks, pension funds, and other international asset managers therefore have a vested interest in understanding how water issues

might affect the value of their portfolios.<sup>1</sup>

We need to bridge the gap between the financial sector and the water sector worldwide. Investors are willing to invest in water initiatives, but few initiatives meet the conditions required by financiers. Hence, insufficient water projects are actually financed and realised. Abundant potential projects are developed in the water sector, but

<sup>1</sup> <http://www.wri.org/blog/2014/01/multinationals-need-take-notice-and-take-action-water-risk-data>

there is often too much focus on technology, development of infrastructure or capacity development, whereas investability is not taken into account. In addition, investors are

often involved too little and too late when it comes to developing bankable water propositions, as a result of which they will ask: “Where is the business case?”

If we manage to bridge this gap between both the financial and water sectors, more money will become available to meet future worldwide water challenges. ≈

### **Institutional Investment Assessment template: connecting institutional investors and the water sector**

Institutional investors (such as pension funds), acting as the stewards of vast sums of wealth, can meaningfully contribute to meet the demand represented by the dazzling amount of 7,500 billion dollar required to realise the necessary water infrastructure. However, with less than 10% of institutional assets invested in infrastructure that would amongst others classify as ‘water’ assets, institutional investors still have to commit more, particularly in light of the abundant (and growing) amount of capital managed by institutions.

So what is required to entice institutional investors to consider investing in water? First and foremost, it requires collaboration between the investor community and the water sector. It is believed that institutional investors should understand:

- The sector’s sheer diversity;
- The economic potential of investing in water;
- The added value of on-boarding water expertise.

The water sector should be introduced to the demands of institutional capital, which may require a change in operating or revenue models, a merge of sub-sectors or the entry of new parties. The sector should therefore adapt to different and new demands, which it has not yet grown accustomed to.

In order to overcome the impediments for institutional capital to invest in water, an Institutional Investment Assessment template has been designed that serves as a dialogue starter and identifies the major obstacles for capital deployment at an early stage. Initial piloting of the template shows that the availability of institutional finance is very project-specific, but the (industrial) wastewater sector is in general one of the most attractive sub-sectors for this type of investor.

**More information:** [www.nwp.nl/sites/default/files/Connecting-institutional-investors-with-water.pdf](http://www.nwp.nl/sites/default/files/Connecting-institutional-investors-with-water.pdf)

### **Water Financing Facility**

The Water Finance Facility (WFF) mobilises large-scale private investment from domestic institutional investors such as pension funds, insurance companies and other qualified investors, by issuing local currency bonds in the capital market in support of their own country’s national priority actions on water and sanitation service delivery. The aim is to develop country level water financing facilities that can issue bonds in their capital markets to provide long-term loans to public or private water utilities with little access to commercial finance or that have access on unfavorable terms, such as short tenors. By pooling credit-worthy water projects, the bonds will run a lower risk. This risk can be further reduced if reserve funds, guarantees, soft loans, or grants for blended finance can be incorporated into the capital market structures.

[www.waterfinancefacility.com](http://www.waterfinancefacility.com)

### **Dutch development bank FMO teams up with Dutch water sector**

The Netherlands Water Partnerships (NWP) and the Dutch development bank FMO have signed a Memorandum of Understanding to formalise the partnership between FMO and NWP, as the recently intensified collaboration between FMO and NWP demonstrated a vast complementarity in the field of water initiatives development.

#### **Developing water initiatives**

The MoU is for the duration of one year and aims to develop at least two water initiatives. NWP’s role in this is to mobilise the Dutch water sector around a specific international water initiative, and FMO will develop and structure this specific initiative in such a way that it becomes attractive for different financial partners.

Manager Partnerships for Development within FMO Aart Mulder comments, “Working together with NWP means that we are able to fulfil one of our key objectives; increasing our impact through partnerships and leveraging these partnerships to mobilise more capital and catalyse investments in frontier markets. The Dutch Desk (NLB) of FMO is dedicated to facilitating tailor-made finance structures for Dutch business, including water stakeholders. The MoU is a perfect fit for this, and we look forward to sourcing projects together that have great potential to make a difference in the field of sustainable water solutions.”

[www.fmo.nl](http://www.fmo.nl) / [www.nwp.nl](http://www.nwp.nl)



SHOWCASES ON URBAN RESILIENCE IN THE NETHERLANDS

# Urban resilience

DUTCH WATER THEME

**The majority of the world's population lives in an urban delta. These cities face many water challenges both now and in the future, due to climate change and population growth. Challenges such as flood risks, water shortages (day zero) and water pollution have already arisen. How do we help people, businesses and governments adapt? How do we ensure our cities become more resilient to the future consequences of climate change and prevent disastrous water crises? Living on the frontline between land and water, the Dutch have always had to adapt to changes in climate and water. We believe in exchanging knowledge, forging international partnerships, innovation, and an integrated approach.**

»



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### Turning city challenges into city opportunities

The Dutch believe in an integrated approach. Simply because a challenge is not just a problem, it in fact often becomes an opportunity when viewed from a different angle and in a broader perspective. The Netherlands as a living lab shows several inspiring examples and initiatives to make cities and deltas more resilient worldwide. These national and local initiatives demonstrate that resilience also means quality of life and economic viability.

### Rotterdam Centre for Resilient Delta Cities

Rotterdam Centre for Resilient Delta Cities (RDC) is a public-private network organisation which aims to accelerate the transition towards safe and sustainable delta cities worldwide. RDC members have an extensive track record in realising innovative concepts in delta cities. Together, they develop

strategies for integral solutions that enhance safety and add value in terms of spatial and ecological quality, social outcomes, and economic potential. Get inspired and become a partner of RDC.

<http://rdcroterdam.com/>

### Global Centre of Excellence on Climate Adaptation

The Global Centre of Excellence on Climate Adaptation focuses its activities on those areas where acceleration is most needed: where action is most urgently required and where this is complementary to the work of others. It is an independent organisation, working across the Global North and South, with offices in the Netherlands. GCECA was initiated by UN Environment and the governments of the Netherlands, Japan and the Philippines and has established partnerships with global organisations, NGOs, governments, financial institu-

tions knowledge institutions and businesses to accelerate climate adaptation.

<https://gceca.org/about+gceca/default.aspx>

### Climate Campus

The Climate Campus is a partnership of over Dutch 40 parties. They have said a resounding 'Yes' to make the city of Zwolle and the surrounding river delta resilient to climate change, now the consequences of climate change are becoming more noticeable all over the Netherlands and in the rest of the world. The ambition is to excel in applying new and existing knowledge and technology and to work on intense cooperation between government, residents, businesses and institutions. It's about connecting the international professional world of knowledge and innovation with the local community. The parties endorse the importance of developing climate-proof deltas.

Excelling, accelerating and capitalising on climate adaptation form the common threads in the development of the Climate Campus. A wide range of organisations have joined, such as government institutions, consultancy firms, nature and environmental organisations and education institutions. In addition to these usual partners also housing associations, parties from the agri-food sector, the trade association of landscapers, and data and geodata parties and other internationally-operating parties have joined.

<https://en.climate-campus.nl/>

### Water Square

The Water Square combines water storage with improving the quality of urban public space, and can be seen as a twofold strategy. It makes money invested in water storage facilities both visible and enjoyable. It also generates opportunities to create central environmental quality and identity spaces in neighborhoods. The water square will be dry most of the time and used as a recreational space. The Water Square is designed by De Urbanisten.

<http://www.urbanisten.nl/wp/>



### Amsterdam Rainproof

It is raining harder and more intensely. As we have filled cities with buildings and pavements, the rainwater has nowhere to go. This results in flooding and extensive damage to houses, shops, and offices. The public sewer system has to process more and more water, but constantly increasing its capacity is certainly not the solution. We should look further than underground

drainage systems and start designing smarter outdoor urban spaces, where we can retain and store rainwater as it falls.

The Amsterdam Rainproof platform collects and connects solutions, products and initiatives to create a more resilient city for effectively dealing with extreme rainfall.

<https://amsterdamsmartcity.com/projects/amsterdam-rainproof> ≈





# Water technology

**The Netherlands is an estuary of three main rivers, flowing from Europe into the North Sea. These rivers have passed many cities and industries. Yet, they are one of the sources of clean, chlorine-free drinking water from Dutch taps. Clean water is a challenge in the Netherlands, a small country partly below sea level, with 17 million people and the same number of cattle. The country only measures 41,526 kilometers, but is one of the largest exporters of agricultural products in Europe. This has caused the Netherlands to develop cutting-edge experience in water technology.**



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## DUTCH WATER THEME

### Cities

#### The circular utility

Urban water supply has to enter a new era, changing from a linear supply chain to a circular one. The water utilities usually operate the water treatment plants in today's cities. Tomorrow's water utility will be entirely different. It will be challenged to recover full costs, it needs to be energy-efficient and rule out leakage, with low carbon emissions, and it must recover as many resources as possible.

#### Urban water systems

The urban water system also includes flood defenses, drainage systems and even spatial planning, for example creating blue-green corridors. The quality of surface water within the city itself and the groundwater levels are essential parts of the green infrastructure and also need to be monitored and addressed.

### Industry

#### Reducing water footprint

Dutch Professor Arjen Hoekstra invented the water footprint. Everything we use, wear, buy, sell and eat takes water to make. Often, the way water is used in industrial processes isn't very sustainable. Industries will have to reduce their water risks for their own economic benefit, and because consumers, insurance companies and investors will demand it. Several Dutch-based multinationals play an important role in defining the specifications for developing new technologies. This has led to the development of process integrated technologies that save water or produce less waste water.

#### Post-use water treatment

Dutch water technology solutions are world-famous for their anaerobic post-use water treatment. Breweries, paper mills, food factories: industrial sites worldwide are equipped with treatment plants from globally operating Dutch firms. Dutch anaerobic treatment is so popular as it not only purifies the

water to meet strict discharge standards, but also produces biogas. This biogas can be used in factories as a renewable energy source, sometimes even making an industrial site fully carbon-free.

#### Recovering nutrients

More and more industries are showing serious interest in new treatment technology to recover valuable materials from their waste water streams. They have become highly aware of the issue of a circular economy and the possibility to lower operational costs by selling recovered raw materials. Most clients however lack access to markets where these materials can be traded. As a result, the first Dutch water technology suppliers became involved as brokers of these waste streams, such as struvite and cellulose.

### Agriculture

#### One of today's greatest challenges

Water management is one of the greatest challenges facing the agri-food sector today. Less and less water per head of the population will be available for food production worldwide. By 2050, it will be a third of what it was in 1950, while the world population will then have increased from 2.5 billion to 9 billion people. This is a problem close to our heart, as the Netherlands is one of the world's largest exporters of agricultural products.

#### Water and agri-food

We believe in an integrated approach. Water stress is inevitable, as the need for water among industry and farmers will surely increase to feed all these mouths. Realising food security in the coming decades means that yields per hectare will have to increase, with prudent use of water and nutrients. Combining techniques and information on soil fertility, soil moisture, water buffering capacity, and irrigation is what we Dutch call an integrated approach on water & agri-food. ≈

[www.dutchwatertechnology.com](http://www.dutchwatertechnology.com)

We are not just about doing more of the same on a larger scale. We find new solutions that take the water cycle to a higher level. Practical, efficient, sustainable, and cost-effective. We are experts on specific niches within water technology such as multiple water usage (industry, household, agriculture), screening, reuse of waste water, nutrient recovery, and state-of-the-art disinfection.

An estimated 9 billion people will live in large urban areas by 2050. Clean water for people, industry, and food will become a challenge. This is why we focus on these three areas:

- Solutions for cities
- Solutions for industry
- Solutions for agriculture

DUTCH WATER SECTOR: LET'S WORK TOGETHER!

# Global water challenges, joint solutions



BACKGROUND

**Water does not stop at borders. Major water challenges require the best solutions. We need to cooperate and exchange knowledge and expertise. We invite you to team up with us to find the best solutions for a changing world. The Netherlands is a country with an international outlook. We seek partnership, a long-term solution to your problems, rather than a quick sale.**

## **Dutchwatersector.com**

Dutchwatersector.com brings you the latest on worldwide water issues, innovations, events, and projects, supplemented with the interpretation of Dutch water experts. Read the latest news about Dutch involvement in international projects and find your water partners from the Netherlands at: [www.dutchwatersector.com](http://www.dutchwatersector.com)  
Dutchwatersector.com is an initiative of the Netherlands Water Partnership (NWP), supported by the Dutch

Partners for Water programme. The Dutch governmental Partners for Water programme aims to increase the impact of the Dutch water sector abroad. The activities under the Partners for Water programme are executed by the Netherlands Water Partnership and the Netherlands Enterprise Agency. ≈

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Follow us on: @HollandWater  
[www.facebook.com/dutchwatersector](http://www.facebook.com/dutchwatersector)

## **DRR-Team**

### **Dutch Risk Reduction Team**

Water-related problems are increasing worldwide. The Netherlands receives an increasing amount of requests for knowledge and expertise on water-related calamities, or how on to prevent water-related disasters. The Dutch Risk Reduction Team (DRR Team) provides the best water experts of the Netherlands to give advice on how to prevent water-related disasters.

Foreign governments can request the support of the DRR Team. Please contact the Embassy of the Netherlands in your country for more information.



# Uniting Dutch water expertise

## DSS water

### Dutch Surge Support facility on water

The Dutch Surge Support facility (DSS water) supports the operations of humanitarian organizations both during and immediately after a disaster by deploying experienced water experts. The Netherlands, as a frontrunner in the field of water management, has a lot to offer in this regard. The deployment of DSS water experts contributes to saving lives and alleviating suffering of a vulnerable population affected by disasters. The pool of over one hundred DSS experts consists of top professionals in the field of water resources management, WASH, and other affiliated areas of expertise.

International organizations interested in the deployment of DSS water experts can contact the Netherlands Enterprise Agency by sending an email to [dsswater@rvo.nl](mailto:dsswater@rvo.nl). Based on previously stated cooperation contracts (standby agreements), a request for support during or after a humanitarian disaster can be submitted.



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### Netherlands Water Partnership

The Netherlands Water Partnership (NWP) is your gateway to the Dutch Water Sector. Companies, NGOs, Knowledge Institutes, and government have joined forces in this public-private partnership. From water purification to spatial planning, from governance to land reclamation, from small scale solutions to mega structures, the partnership has the expertise. The members of the partnership work together to offer sustainable, multi-functional water solutions for people, planet, and profit worldwide.

The partnership, consisting of 200 members and partners, acts as a centre of information on water expertise, policy developments, and market opportunities. But NWP is more than an information source; we also initiate, coordinate, and execute projects for our members and partners and organise trade missions, exhibitions, and conferences.

Interested in visiting the Netherlands and teaming up with the Dutch Water Sector? We also organise incoming visits and study tours. Please contact us for further information, and let's work together! ≈

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# Company profiles

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# Twynstra Gudde leads Bangladesh



ADVERTORIAL

## The power of adaptive delta management

### Twynstra Gudde

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A Dutch consortium led by Twynstra Gudde is working on the Bangladesh Delta Plan 2100 to make the country climate-proof for the future. Given the scope, scale, and time horizon of the plan, this is a unique and exciting assignment. The plan intends to provide solutions for current issues, but will primarily anticipate for the long term up to 2100. Adaptivity is key. “One hell of a job, but also a once-in-a-lifetime opportunity”, says Jaap de Heer, Director of the consortium and Partner at Twynstra Gudde. Alongside Twynstra Gudde, the consortium furthermore includes Euroconsult Mott MacDonald, ECORYS, Witteveen+Bos, D.EFAC.TO, Deltares, Wageningen UR, and UNESCO-IHE.

# Delta Plan 2100 project



Like the Netherlands, Bangladesh has a low-lying delta area, and the Delta Plan is consequently somewhat comparable. But De Heer underlines that there are some big differences too, certainly when it comes to the huge number of subjects addressed, both in terms of the water system as well as governance. Massive rivers like the Ganges and Brahmaputra flow through the country and into the Bay of Bengal. The dynamic delta faces a complex series of issues. The low-lying coastal area is relatively unprotected and battling salt intrusion. There is ample flooding during the monsoon season.

“People are used to that – flooding also creates fertile soil”, De Heer says. “But because of climate change, the flooding has taken on other forms that require action. What’s more, Bangladesh is a developing country. With a strong population growth and an annual economic growth of 6-7%, there is a need for improved safety. The country wants to prevent the frequency of economic setbacks. The prevailing thought is that if we do nothing, then this will ultimately cost money. So we’re better off investing now.”

## Complex process

“Our strength lies in thinking strategically and conceptually for the long term, as well as in managing complex processes with political and administrative insight, and accelerating transition, partially due to our know-

ledge of this market. Technical expertise is of course essential as well, but to be able to maximise how this is used requires a vision, strategy, and an effective collaboration between political and administrative parties. We have heavily invested in analyses, interactive designs, cohesive strategies, and the administrative organisation in Bangladesh. The government sees the need for a multi-sectoral approach and as such has assigned the Delta Plan to the Ministry of Planning. Collaborating and coordinating between the seven ministries involved is thus a huge task.”

## Adaptive plan

The Delta Plan focuses on the year 2100, with the years 2030 and 2050 as mid-term deadlines. That’s quite a long horizon. “Because of various uncertainties, including those of climate change, we are keenly investing in adaptive delta management, which means not laying down too much in rigid measures that may be regretted in the future, but instead safeguarding flexibility. Being adaptive means that under and over-investments can be avoided, depending on whether, for instance, the climate changes faster or slower. This will avoid high investments that may only be required at a later stage, if at all.”

## Short term

In addition to improving water safety, other issues that need to be tackled in Bangladesh include sufficient

drinking water, sanitation, water quality, land reclamation, more transport via inland shipping, and irrigation for agriculture. A range of projects has already been selected for the short term. A \$38 billion investment plan for the period up to 2030 has been set up with the World Bank. “This is money that can’t be spent on education or fighting poverty, which is a sensitive topic in terms of decision-making. But by making smart connections by integrated water management, you can substantially contribute to economic development.”

## Interactive strategic approach

“At Twynstra Gudde, we take full advantage of the expertise that we have previously gained from (inter) national projects such as the management of complex projects, cross-cultural collaboration, strategy alignment and mutual gain approach with stakeholders in relation to water governance, and anticipating how the implementation of the Delta Plan will be organised. This expertise is also used in the Parana Delta in Argentina, and it was applied in Colombia to set up a modelling body. Our starting point there was also an interactive strategy analysis and a design approach for gathering (local) knowledge and insights. This provides a wealth of information and input for strategic development and governance, and ensures more support and engagement.” •

# European water technology hub seeks global connections

## WaterCampus Leeuwarden leads the way

ADVERTORIAL

**A remarkable phenomenon that aptly underlines the ever-increasing global importance of water technology is the growth of internationally renowned water hubs: places where government, knowledge, and business come together, innovations are developed, and new markets are exploited. An exceptional example of this is WaterCampus Leeuwarden, where an innovation ecosystem has been developed in recent years that not only provides pioneering innovation in water technology, but also sets an example in the field of international matchmaking. Together with Water Alliance's Managing Director Hein Molenkamp, we will explore this water technology gateway to Europe.**

"The WaterCampus is not the only place for companies and organisations that want to do business in Europe",



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explains the director. Dutch water technology is successfully paving the way in multiple locations worldwide. At the Canadian Water Summit 2017 in Vancouver, there was lots of praise. Molenkamp comments, "The concept in which we supervise and facilitate processes that can lead from idea to concrete business was met with great interest. 'Bring in the Dutch' was frequently heard; an extraordinary and memorable experience."

A group of Brazilian water journalists that recently visited the WaterCampus also expressed appreciation. "We have seen what far-reaching cooperation between government, educa-

tion, and businesses can lead to", says freelance journalist Andrea Vialli about the trip. "I am travelling back to Brazil with a big exclamation mark above my head."

The Water Alliance is also active in Asia. Molenkamp recently visited K-water's headquarters in Daejeon, South Korea. CEO Mr Lee took ample time to talk to the WaterCampus delegation about collaboration. "We too invest a great deal of time in such relationships", concludes Molenkamp. "This has allowed us to create opportunities for Dutch companies in Singapore, Milwaukee, South Korea, and other locations in the world." •



# World Water Academy

Learn today, apply tomorrow

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**World Water Academy is the leading training institute for water management in the Netherlands and abroad. We develop and organise training courses for water professionals. Experts on flood defence, water quantity, and water quality.**

## Let's train water professionals better!

Our main goal is to be leader in practical training and capacity building within the global water sector. Our courses are well-known for their technical knowledge and up-to-date water knowhow, all combined with practical experience given at vocational and academic level. We aim to save, store, share, spread, and sustain practical water knowledge in the Netherlands and elsewhere. Due to our establishment in 1994 by the Dutch water sector, we have ample experience in improving the quality of its employees by specific, practical knowledge on water topics, resulting in a better performance of utilities and organisations.

## Various water specialisations and levels

Providing lifelong learning is our aim. We provide over one hundred different inspiring and practical courses for over 2,500 participants

every year. Our trainers are all experienced water professionals and recognised experts in their field. Our strength lies in the combination of experiential water knowledge and didactical knowledge. We offer courses in water specialisations such as water supply, water distribution, wastewater treatment, water resource management, flood protection, water didactics, and soft skills.

## Our concept

The World Water Academy concept describes the procedure to design, develop, and deliver courses. The characteristics of the concept consist of training for practical level, training for professionals and by professionals, and up-to-date, inspiring, practical and customised courses.

We include action-learning methods in our training programmes. These methods create interaction, team spirit, group dynamics, and encourage participants to learn from each other, which increase the learning

efficiency and thus the learning results.

The professional knowledge, practical experience, up-to-date water knowhow, and flexibility in customised courses are what makes World Water Academy unique. We have trained international water professionals to become trainers. World Water Academy has established worldwide partnerships with organisations and consortia in both the Dutch and international water sector.

Do you want to train water professionals better? Just get in touch and we will be happy to help and further inform you about our services. Please visit our website [www.worldwateracademy.com](http://www.worldwateracademy.com) or reach out to us via [info@worldwateracademy.com](mailto:info@worldwateracademy.com).

World Water Academy



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# The world of Royal Eijkelkamp

Meet the difference



Personal attention and a unique range of solutions have for over a century been Royal Eijkelkamp's trademark. Royal Eijkelkamp has already been devising, developing, producing, and delivering smart solutions for soil and water projects worldwide since 1911.

ADVERTORIAL

These innovative solutions, together with the existing knowledge and expertise of our soil and water specialists, have served to raise projects to a higher level. From field measurement equipment to smart sensors and sampling, and from Edelman augers to sonic drilling machines, Royal Eijkelkamp has quite a range on offer. Themes that the enterprise is involved in worldwide include land degradation, food security, natural resources, land development, urbanisation, and pollution.

## Different units, one focus

Royal Eijkelkamp has grown into an impressive global group of companies that comprises Eijkelkamp Soil & Water, Eijkelkamp SonicSampDrill, Eijkelkamp GeoPoint SoilSolutions, and Eijkelkamp Academy. In addition, the Eijkelkamp Foundation was established in 2011. All of these are different units with one binding factor: a focus on soil and water.

- Eijkelkamp Soil & Water offers

solutions for soil and water projects. The product range has expanded to over 2,500 products for soil augering and soil-sampling equipment, laboratory equipment, sensors and monitoring, water and water bottom sampling equipment, manure treatment technology, and field measurement equipment.

- Eijkelkamp SonicSampDrill is producer of sonic drilling and sampling equipment for use in environmental drilling, mining and mineral exploration, geotechnical sampling and testing, and special foundations drilling. Sonic drilling is fast, efficient, and clean.
- Eijkelkamp GeoPoint SoilSolutions is a specialised developer and manufacturer of high quality geotechnical instruments. Eijkelkamp GeoPoint SoilSolutions carries the widest range of CPT cones in the industry, specialised CPT software and carries a large stock on spare parts.
- Eijkelkamp Academy is Royal Eijkelkamp's centre of expertise. The

three cornerstones of this academy are training, consultancy, and applied research. It also works closely with Wageningen University, UNESCO-IHE, and Aeres University of Applied Sciences.

- The Eijkelkamp Foundation has at its disposal the knowledge, means, and equipment that can help improve soil and water quality for all of us. Our one hundred years of specialised knowledge and entrepreneurship are now also benefiting the worldwide community. The latest and most ambitious project of this foundation is The Water Entrepreneur. •



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# Dutch Water Authorities

## Partners in regional water management

ADVERTORIAL

**Dutch Water Authorities is an expert on regional water management. Abroad, we build partnerships with organisations for regional water governance. The aim is to be a sparring partner, where reciprocity and respect for each other's context is key.**

### Experts on flood defence, water quantity, and water quality

The Dutch live in the safest and cleanest river delta in the world. Effective water management is essential in a country below sea level. Regional water management in the Netherlands is largely the responsibility of the regional water authorities.

Water management involves much more than building dikes and windmills. The work also entails water level management, water quality management, adapting to climate change, dredging, and wastewater treatment. There are currently 21 regional water authorities in the Netherlands.

The Dutch regional water authorities work on strong flood defences and on clean and sufficient water in the Netherlands. Dutch Water Authorities invites international delegations to visit projects on for example water level management, water quality management, adapting to climate change, dredging, and wastewater treatment.

### Our activities abroad

Twenty million people in forty catchment areas worldwide that are better protected against water and have access to sufficient, clean water. That is the ambitious goal of the Ministries of Foreign Affairs, Infrastructure and Water Management and Dutch Water authorities.

Abroad, Dutch Water Authorities usually builds a partnership with organisations for regional water governance. The objective is to be a sparring partner, where reciprocity and respect for each other's context is key. These partnerships work on clean, sufficient, and safe water with 2030 as a horizon.

The exchange with the international partner organisation focusses on elements of effective water management, which include financing, technique & innovation, organisation strategy, long-term maintenance, monitoring & evaluation, regulation & enforcement, and planning.

### What do we offer?

Dutch Water Authorities offers a long tradition of regional water management. Characteristics of this tradition are the principle of interest – pay – say, efficient water governance, hands-on mentality, institutional involvement, integrated approach, and a long-term perspective.

Dutch Water Authorities shares knowledge, experiences and staff, and offers working methods such as coaching, workshops, linking organisations, providing inspiration, and learning by doing.

### Contact us

Dutch Water Authorities is your point of contact for expertise in regional water management. Send an e-mail to [info@dutchwaterauthorities.com](mailto:info@dutchwaterauthorities.com).

 **DUTCH WATER  
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# Integrating marine energy innovations into existing infrastructures

ADVERTORIAL

**Marine energy can make a substantial contribution to the global energy transition. The term refers to renewable energy that can be generated from water, making use of tidal streams and head, wave, and salinity and temperature gradients. Energy generation from water is sustainable, reliable, and predictable, and therefore complementary to intermittent solar and wind energy generation.**

Marine energy is currently in the early development stages. The advancement of unique integrated marine energy concepts, also called 'Blue Solutions', lead to the accelerated development and commercialisation of these technologies. The potential of marine energy is significant. If current developments continue, the worldwide installed capacity by 2050 could amount to 300 GW, enough electricity for

roughly 350 million households. This translates to a yearly value generated in the supply chain of €100 billion. In Europe alone, the energy generation potential is estimated to be 100 GW by 2050, which equals 10% of the electricity consumption in the region. Marine energy can therefore make a significant contribution to the global sustainable energy transition and reaching international climate goals.

## Energising deltas, coasts, islands and structures

The Netherlands holds a strong position in the global marine energy sector, building on centuries of experience and expertise in water management. As such, the country is well-positioned to develop specialised export products and to valorise a significant portion of the international marine energy market. The unique collaboration between technology developers, knowledge institutes and large offshore organisations means that the Netherlands is leading the development of Blue Solutions. These are innovative concepts that integrate marine energy technologies into existing civil infrastructures and thereby give them a second purpose. Blue



Solutions make commercial sense as well; large capital-intensive projects that incorporate energy production into their business case can bank on the return on investment of electricity sales. These innovations thus provide the Netherlands with significant export opportunities.

### Tidal Bridge

An example of a Dutch Blue Solution currently in development is the so-called Tidal Bridge, a floating modular bridge with mounted tidal turbines underneath it. This concept combines a transport function with energy generation, and therefore provides unique opportunities, especially for remote areas. The consortium behind Tidal Bridge includes large Dutch offshore players and project developers gearing up towards the realisation of the first Tidal Bridge in Indonesia.

[www.tidalbridge.com](http://www.tidalbridge.com)

### Energising Deltas

Another example of a Blue Solution is an Energised Delta. These deltas are barriers and other sea defence structures into which tidal turbines and salinity gradient technologies are integrated. Here, the structure's primary water safety function is combined with renewable energy production and contributes to making these civil structures energy-neutral. There are numerous civil structures that can be used to produce renewable marine energy in this way, both in the Netherlands and in other deltas around the world. The Afsluitdijk, for instance, acts as a testbed where Blue Solutions are

### About DMEC

DMEC is a non-profit organisation that links different sectors and players involved in marine energy development and brings them together to stimulate innovation and Blue Solution development. It delivers bespoke technical and commercial services to support marine energy developments across Europe. These services include R&D and demonstration support, business case and strategy development, and certification of technologies. The services are aimed at supporting technology and project developers to deploy future-oriented, sustainable, and commercially feasible Blue Solutions. To this end, DMEC runs a European Accelerator programme – called the Marine Energy Alliance – in which developers gain access to expertise throughout Northwestern Europe. In addition, DMEC works on establishing internationally recognised standards for certification, to create the right conditions for more insurable and bankable marine energy projects.

showcased to an international audience. In the Eastern Scheldt storm surge barrier in the south of the Netherlands, an array of five tidal turbines has been operational since 2016. The renewal of barriers such as the Afsluitdijk, barrages, and the construction of windfarms at sea (such as Borssele V) along the Dutch coast offer even more opportunities to develop scalable, commercial marine energy projects.

[www.tocardo.com](http://www.tocardo.com)

[www.redstack.nl](http://www.redstack.nl)

[www.dutchmarineenergy.com](http://www.dutchmarineenergy.com)

### Energising Islands

Finally, Blue Solutions are under development that are specifically suited to produce energy for island communities. For islands situated around the equator, Ocean Thermal Energy Conversion (OTEC) technology can be an ideal solution to provide both cooling systems and a way to continuously produce renewable

energy. Two commercial projects in Curaçao and Jamaica are being planned, where a deep seawater district cooling system incorporates OTEC power production. These two functions combine into an interesting multi-business case that makes optimal use of the available natural resource.

[www.bluerise.nl](http://www.bluerise.nl)

The Dutch Marine Energy Centre (DMEC) is at the forefront of Blue Solution development in the Netherlands. Together with different Dutch industries, including the offshore, maritime, and water management sectors, DMEC is dedicated to integrating promising marine energy technologies into new, viable, and sustainable solutions that make a difference. •



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# Deltares

Knowledge partner for government and business

ADVERTORIAL

**Deltas, coastal regions, and river basins are appealing locations to live and work. More and more people are moving to these areas, and economic activities are booming here. Even so, because of the low-lying location nearby water and the soft subsoil, life here is certainly not without risks.**

**The impact of climate change, such as sea-level rise, land subsidence, and erratic rainfall patterns, is creating even more threats. Ample new solutions will be needed to live in these areas safely and sustainably.**

**Deltares, the Dutch innovation and research institute for water, subsurface, and infrastructure develops solutions. We build on a basis of in-depth and wide-ranging knowledge of the natural system, continuously extending this base through pioneering research. This allows us to map out the risks on behalf of government and business. We develop practical solutions to more effectively manage the risks. Cost-efficiency and sustainability are important factors.**

**Our work focusses on five social themes: flood risk, healthy water and soil systems, availability of water and subsoil resources, delta infrastructure, and finally adaptive delta planning.**

**T**he products delivered by more than 800 specialists that work for us vary widely. These include strategic plans for responding to the impact of climate change, efficient use of space in densely-populated deltas or improvements in the quality of water and soil systems. Other products resolve problems such as the development and implementation of a flood warning system, optimising infrastructure or initial exploratory studies.



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Deltares knows the size and multiplicity of challenges facing deltas. There is an urgent need to respond by developing as much new knowledge and as many advanced solutions as possible. Deltares therefore intensively collaborates with universities in the Netherlands and other countries, as well as other research institutes, to accelerate knowledge development. We engage in structural partnerships with many of these organisations, conducting research together.

Given the strong demand for solutions, we do not keep Deltares' research results to ourselves: we make them publicly available. New advances are integrated into our state-of-the-art software, a great deal of which is open source. Government and businesses can draw on our work to develop their own solutions. Other knowledge and research institutions can contribute their own research results, further extending the knowledge base on life in deltas. We pool our resources to make deltas safe and habitable, both now and in the future.

### Flood risk

Demand is on the rise for flood risk forecasting and for protective measures that can count on widespread support. With our research activities, Deltares can produce ever more accurate predictions of the strength of water defences, and forecasts for water levels, wave heights, erosion, and sedimentation are becoming increasingly precise. This enables sound risk estimates and the development of effective flood-prevention measures that are cost-efficient and socially acceptable.

### Healthy water & soil systems

The pressure on ecosystems and the environment is increasing. Deltares develops model and information systems for policymakers, manage-

ment agencies, and users, targeted at improving the quality of water and soil systems.

We also develop sustainable natural solutions as an alternative to the traditional hard hydraulic engineering approach, technological innovations to improve the protection of water on soil systems, and the exploitation of ecosystem services.

### Water and subsoil resources

There will be changes in upcoming decades in the availability and use of water and soil resources. Fresh water supplies will decline, though demand will increase. In addition, we are seeing a rapid rise in interest in the use of water and subsurface as a source of sustainable energy. Deltares is mapping out the present and future availability of water to make it possible to plan for shortages and excesses. New and efficient concepts are also being developed to generate sustainable energy from water and the subsurface.

### Delta infrastructure

In delta areas, infrastructure is built on land and in the water. Building on or in soft delta soil is not without risks. The same applies to structures on sea and river beds. Deltares research focusses on reducing costs and risks when building in coastal regions, on soft ground, and at sea. Innovative solutions are designed to make existing infrastructure climate change-proof, when possible by using natural processes.

### Adaptive delta planning

Adaptive delta planning is not only a matter of technological solutions, but also of acceptance by the relevant authorities, agencies, and the public. Deltares supports government decision-making processes by supplying knowledge on governance for delta issues and concepts for plan development. We also have



instruments that provide governments with points of reference for decisions on uncertain developments such as climate change, and we provide knowledge about sustainable living and working in delta cities. •

# Aquatech Global Events

## Aquatech travels the world

ADVERTORIAL

**Water has been in our blood for over half a century. We bring people together to tackle urgent water issues. We aim to connect problems to solutions, encourage knowledge sharing, and generate business wherever we go.**

Next to shows in China and Mexico, Aquatech Amsterdam is our flagship trade show. Aquatech Amsterdam covers the entire water spectrum, with an emphasis on water and wastewater treatment, transport and storage, process control & automation, and point of use. We are proud to welcome all market leaders and offer our visitors a complete overview of the latest innovative technologies, new products and services, an advanced knowledge programme, as well as unparalleled networking opportunities.

Aquatech Amsterdam puts innovation at the forefront and new thematic hubs on the themes of desalination

technology, smart water networks, pumps and process, water & energy, and climate change. The industrial water user is invited for a special seminar programme at the Industrial User Experience. The show features the InnovationLAB, with the Aquatech Innovation Award nominees & winners and future technology with prototypes and demos at the InnovationLAB Experiences. The Innovation Avenue and BlueTech Innovation Pavilion are also must-visits if you are looking for new products and solutions.

Visitor and exhibitor numbers, the trade show area, and the number of entrants to the prestigious Aquatech Innovation Awards made Aquatech

Amsterdam 2017 a record-breaker on all fronts!

The trade show takes place on 5 - 8 November 2019 and will attract some 1,000 exhibitors and over 25,000 international visitors. Aquatech Amsterdam is co-located with Floodex Europe, and is part of the Amsterdam International Water Week. Extreme weather events are expected to occur more often, intensifying floods and droughts. Floodex Europe focuses on flood defence, water level management, prevention, mitigation, and drainage. A subscription to our monthly newsletter keeps you up-to-date on all our events and the highlights in industry news.

Can't wait? We will be in Mexico in September 2018, and China is on the calendar for June. Don't hesitate to contact us if you have any questions or would like to be involved in one of our Aquatechs. •

**AQUATECH  
AMSTERDAM**  
  
AMSTERDAM • NL  
**5 - 8 NOVEMBER  
2019**

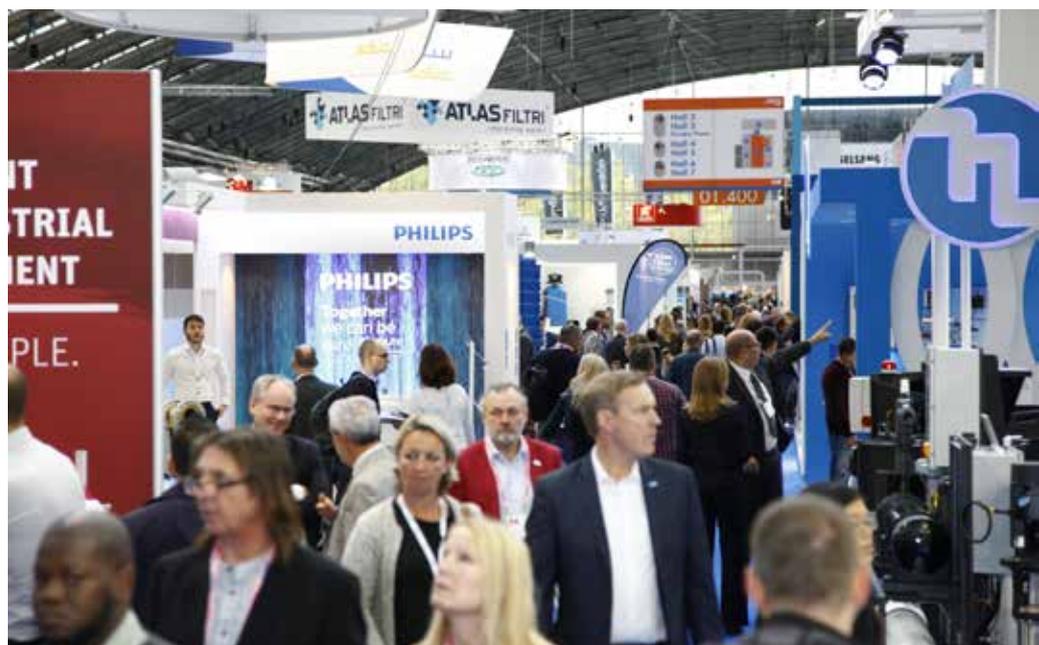
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# Sweco

## Partner in climate adaptation

ADVERTORIAL

**From 2050 onwards, the number of people living in low-lying delta cities is expected to increase by as much as 70%. These densely populated cities are extremely vulnerable to climate change. Space is limited, and therefore technical expertise as well as creative spatial design will be required to find and implement solutions. Sweco offers cities worldwide an integrated approach in climate adaptation. Our vision: solutions should not be solely technical, but should also add value to the quality of life.**

Deltas are great places to live, but the general awareness of their vulnerability is growing as the effects of climate change, such as sea level rise, increased flood-risks and river discharge, are becoming increasingly visible. Quickly expanding built-up areas are vulnerable to heat stress and local flooding caused by extreme rainfall. Many delta cities have to deal with heavily polluted water resources, subsiding ground levels, and groundwater extractions.

Sweco provides all consultancy, engineering, and design services required to support cities in their climate-proof development worldwide.

### Our services:

- Climate vulnerability analyses;
- Hydrological modelling, storm water and flood risk analyses;
- Heat stress and drought analyses;

- Adaptive urban planning and building;
- Cost benefit analyses and investment strategies;
- Stakeholder approaches and interactive design workshops;
- Institutional development and capacity building.

Our experience ranges from small, local areas to adaptation of entire societies and major infrastructure projects. Examples are the Climate Adaptation Strategy for Ho Chi Minh City, the Integrated Coastal Development project in Jakarta, and climate adaptive designs under the Amsterdam Rainproof programme.

Sweco considers climate challenges to be a driver for urban (re)development, rather than just a threat. Climate change makes us reconsider urban design, as scale measures in

spatial planning are required. Together with our stakeholders, we are in the process of defining smart combinations of functions that should enhance the climate adaptivity and liveability of our cities.

### Interested in how we can help your city to become climate adaptive?

With almost a hundred years of experience in urban planning, water management, water technology, environmental services, infrastructure, mobility, and industry, and over 14,500 enthusiastic colleagues in Northern Europe, Sweco is the right partner for sustainable and climate adaptive urban development. •

# SWECO

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# Water management meets sustainable energy production

## BT Projects' innovative renewable energy solutions

ADVERTORIAL

**Water management has been a hot topic in the Netherlands for decades. But with climate change, issues concerning water safety, security, and quality are now given extra impetus. The Dutch have always found innovative ways to deal with these issues.**

Faced with the worldwide need for enhanced water management, BT Projects promotes integrating water safety and water quality measures with sustainable energy production. This can contribute to cost-effective

and ecological sound water management and increased climate resilience.

### Hydropower

BT Projects is a Dutch company that specialises in developing innovative sustainable energy solutions, with a focus on hydropower technology. It develops offshore, onshore, and nearshore tidal and river energy hydropower. The enterprise also ventures into other renewable energy sources, energy efficiency measures, and energy storage innovations. It has a team of over 10 (international) renewable energy experts that is still growing. BT Projects, along with its Dutch and international partners, is currently developing projects through-

### Tidal Technology Center Grevelingendam Project

In the Netherlands, BT Projects has driven the establishment of 'Blue Barrier' demonstrator 'Tidal Technology Center Grevelingendam' (TTC-GD). A Blue Barrier combines the technology of a storm surge barrier with a tidal array. The civil structure of a Blue Barrier channels the water to turbines for electricity generation, thus combining water management with energy production.

Located in the world-famous Delta Works, TTC-GD will support hydropower technology development. When completed later in 2018, the technology centre will provide owners of new tidal energy technologies with the means to test, certify, validate, and demonstrate products in a fully operational tidal context. The centre will furthermore offer a demonstration setup four turbines, capable of producing 0.5-1 MWe of energy.

TTC-GD's vision is to accelerate the development of offshore tidal energy technologies and nearshore Blue Barrier technologies that combine storm surge protection with good water quality and tidal power generation. It offers a regulated and controlled location that is, unlike an offshore site, easy to visit and ideal for deploying and recovering a turbine without requiring a special ship that can operate in a fast flow environment.

out Europe, as well as in Indonesia, Philippines, Gabon, Tanzania, Sierra Leone, and Surinam. Key in its approach is applying technologies appropriate for the local circumstances and empowerment of local partners. •



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Landustrie

# Landustrie Sneek BV

Worldwide Water Technology since 1913

ADVERTORIAL

**With over a century of global experience, Landustrie has become a leading player in the field of water and wastewater management and, last but not least, in hydropower screw turbines.**

## Wastewater treatment

In the field of wastewater technology, Landustrie has a lot of specific knowhow and ample broad experience. With our wide range of equipment for both wastewater and industrial applications, we are able to offer efficient solutions. We provide several aeration concepts suitable for diverse treatment processes. Thanks to a full-scale aeration test tank, we have gained extensive specific knowledge on process technology. Our main products include Archimedes screw pumps, high efficiency surface aerators, brush aerators, Landox flow boosters, and screen cleaners.

## Water control

The Netherlands are renowned for their water management and water control. And in all modesty, we do know what we're talking about as the first drawing of the initial pumping station dates from 1916! In earlier days, our screw pump was mainly

used in polder pump stations, but nowadays Landy screw pumps are used in many applications such as irrigation, drainage, and storm pumping stations. Our automated mobile screen cleaners are installed for multiple applications to deal with any unwanted floating or suspended debris. These weed screen cleaners are ideally suited for polder drainage stations, barrages, and dams.

## Pumping solutions

Landustrie designs and manufactures a wide range of sewage and wastewater pumps in a broad variety of materials for both domestic and industrial applications. All pumps are made and tested at our own production facilities in Sneek, the Netherlands. Important basic principles of our pump series are quality, keeping it simple, a long lifespan, and less maintenance, hereby reducing lifespan costs, and environmental consideration.

## Hydropower

Landustrie designs, builds, and installs highly efficient, cost-effective, and environmentally beneficial hydropower turbine system solutions that are specifically designed for relatively low head, high flow river courses.

We provide all roles, from initial site investigation and engineering/designing to manufacturing and installation. We have at our own manufacturing facility all of the latest technology to build the most durable and best performing hydropower screws. •

**Landustrie**   
SINCE 1913

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# Merger highlights strong points and product lines

## ROHR-IDRECO

ADVERTORIAL

With the merger of ROHR-Bagger from Mannheim, Germany, and Idreco from Doetinchem, The Netherlands, two companies which are amongst the market leaders in their segments, combined their strengths and product lines. As a manufacturer of suction dredgers with a large percentage of customers in Germany, this is a very important step for Idreco. With the implementation of the German production facilities Idreco has also significantly strengthened her sales force to cope with the rising demand.

### New strategy

Engineering and production are embedded in a modern product strategy. ROHR-IDRECO now pursues the objective of making the selection of the suction dredger as clear as possible for the customer. Depending on the performance class, a distinction is now made between six basic models of the ROHR-IDRECO DRAGA series, which are designed for

capacities of 1,000 to 4,000 m<sup>3</sup> / h and for dredging depths of up to 100 m. Particular to the dredgers in this series is the modular design. Thanks to the modular system the production costs are lower. It also makes it possible to shorten the production periods and thus reduce delivery times. All in all, the customer has access to a low-cost standard product that can of course be equipped with additional options.

unload the components at the customer's site and assemble the dredger. The concept is also becoming apparent in the international markets of Sediment Management where accessibility is challenging.

### More than just Sales

We understand our customers are looking for financially attractive options in order to master costs on a project basis. Therefore our new strategy also offers short and long term lease options.

Our group offers the widest portfolio available in the Sand & Gravel industry, from jet suction dredgers to fully automated floating hydraulic grab dredgers. Please visit our website to see how we can contribute to your success. •

The new concept is already showing success. In May 2018, a new ROHR-IDRECO DRAGA 3000 went into operation in Germany and other projects are about to be delivered. The transport on Trucks to the customer could be carried out in one day. The components are designed so that one crane is sufficient to

**ROHR-IDRECO**

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# DIVER<sup>®</sup>

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# PROTECT



against rising water levels in coastal areas and delta regions

As a leading marine contractor, we offer several flood defence and coastal protection programmes to protect against water. How? By reclaiming land, building with nature and reinforcing dikes. Get ready to protect your community.



Watch our coastal protection videos  
[▶ vanoord.com/dredging](https://vanoord.com/dredging)



# Dutch water news

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# Largest water electrolysis factory greens chemicals sector



MARCEL GALJEE, DIRECTOR ENERGY OF AKZONOBEL

**A**kzoNobel has been using salt water as a basis for the electrolysis process for decades already. The Delfzijl based factory of the chemicals group extracts salt on a large scale, which is the basis for different chemical applications. “After the water is removed from the salt through evaporation, high-purity salt and clean, almost distilled water remains. We use this water in various processes, also for electrolysis. In doing so, we decompose saline ( $\text{NaCl}$  and  $\text{H}_2\text{O}$ ) into chlorine ( $\text{Cl}$ ), caustic soda ( $\text{NaOH}$ ), and hydrogen gas ( $\text{H}_2$ ), which are the components that it consists of. We will work with ‘ordinary’ water in the new factory. The process is in principle the same, though the technology differs somewhat, as here we split water into hydrogen ( $\text{H}_2$ ) and oxygen ( $\text{O}$ ) by means of green electricity”, elaborates Galjee. “We use an ‘electrolyser’, which is basically a container with water with a membrane in the middle and electrodes on each side, where you effectively feed electricity into the water molecules. The hydrogen that is released after water decomposition is one of the most powerful existing energy carriers, and is therefore often used in the chemical industry. You can burn hydrogen to make electricity and heat, or use it as a chemical raw material for, for instance, water

**AkzoNobel Specialty Chemicals and the Dutch firm Gasunie want to build a water electrolysis factory with a 20 megawatt capacity in Delfzijl Chemicals Park, which will from 2021 onwards convert sustainably produced electricity into green hydrogen. This can be used as a raw material for chemicals companies, and as clean fuel for vehicles. Although the decision on the construction shall be taken in 2019, AkzoNobel's Director Energy Marcel Galjee expects that the project will be realised after a thorough analysis – an important greening of the chemicals sector.**

INTERVIEW

peroxide.” In a fuel cell – which contrary to a battery pack or battery does not store electrical energy, but produces it – the process works in the opposite direction. “In this process, we recombine the hydrogen with oxygen via a membrane. In February we opened a hydrogen fuelling station where buses can refuel green hydrogen and, thanks to the electricity created due to the oxygen from the air, they can drive fully electric. Nothing but clean water is emitted from the exhaust.”

“The transition of fossil to sustainable fuels, and from a polluting to a clean industry that emits little or no CO<sub>2</sub> emissions, means that we must form new chains and collaborate with parties that we are conventionally not used to working with”, Galjee adds. “Otherwise we cannot achieve what we have agreed upon together.”

AkzoNobel has meanwhile built bridges between, and formed chains with, parties from the energy and infrastructural sector and customers. “The collaboration with the Nederlandse Gasunie is an example of this. The infrastructure of this state-owned company, where large amounts of natural gas (methane) pass through, can also be used for the transport of hydrogen. Moreover, the Gasunie is considering the contribution that it can deliver to the hydrogen economy and to hydrogen as a flexibility buffer.” Contrary to

electricity, hydrogen as an energy carrier can be stored relatively well in large volumes. Hydrogen can be converted into a special gas turbine to produce electricity and heat, but as a chemicals company, AkzoNobel Specialty Chemicals is mainly interested in the industrial application to create other sustainable and circular molecules.”

#### Parallel with offshore wind

The chemicals company already produces green hydrogen, but with the plans for the electrolysis factory demonstrates its ambition to start doing this in the province of Groningen on a large scale using advanced technology. The ultimate objective is to be able to manufacture chemical building blocks by solely using green, circular sources as a replacement for hydrogen that is currently still, both nationally and internationally, created mainly by cracking natural gas. Galjee explains, “The fossil raw material of natural gas is CH<sub>4</sub>. The CO<sub>2</sub> in this goes into the air and hydrogen remains. This method causes high CO<sub>2</sub> emissions and has in the past decades seen relatively little development. This is due to the fact that there was until now no competitive alternative for this fossil variant. In the electrolysis factory in Delfzijl, we will soon produce 3 kilo tonnes of the green, sustainable alternative, which will not suffice as we are now already using more ‘old’

»

‘This project is the **prelude to further scaling up**, for instance in the IJmond region and the Rotterdam port area’

hydrogen. We must therefore continue to work on scaling up, so it can grow into an appealing alternative. The water electrolysis factory in Delfzijl, the largest of its kind in Europe, is a first step, but we must scale up from 20 megawatt in 2021 to 100, 500, or perhaps even 1,000 megawatt. I draw the parallel with offshore wind. This energy source was also not competitive several years ago. This has changed with the increasing number of wind turbines that have been added. New value chains have been built, companies know how to find each other, and risks decrease, so that we are now able to build wind parks without subsidy. This is how you should view our business case, too”, Galjee says.

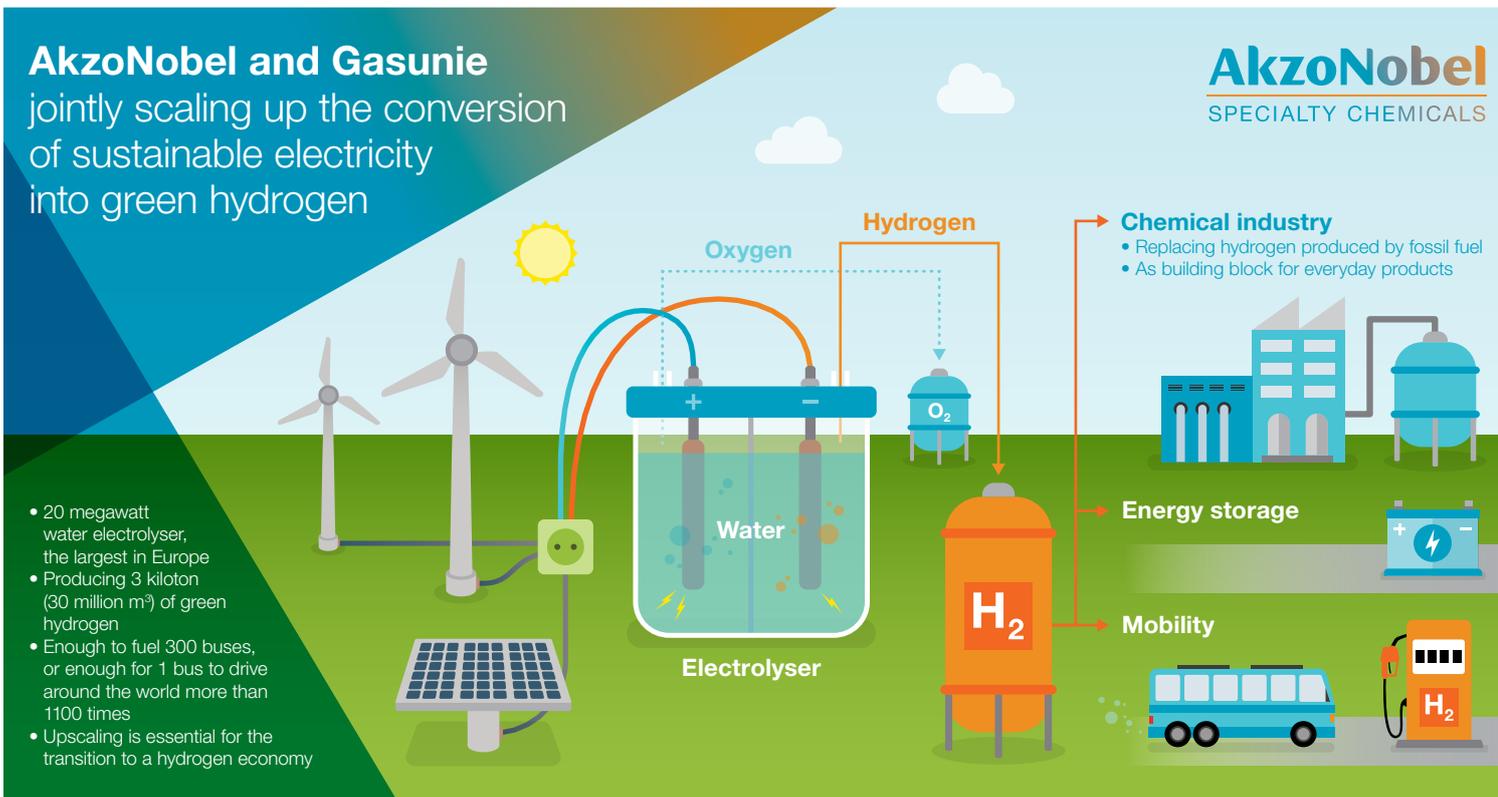
**Economic boost**

This development is certainly an economic boost for the north of the Netherlands. Offshore wind

is amply available here as a sustainable source of energy for converting electricity into green hydrogen, and therefore does not need to be supplied from far away. Thanks to the collaboration with the Gasunie, AkzoNobel can possibly use existing and partially new infrastructure for the transport of hydrogen to other areas in the Netherlands and beyond. “There are already large hydrogen networks in this country, and also from Rotterdam to France via Antwerp. There is already a small network in the north of the Netherlands, which we will expand.”

The final decision will follow in 2019, after which the construction of the factory – which will take one to two years – can begin. “As we are convinced that you should jointly build a large chain for this, we are also talking to parties other than the Gasunie about applying hydrogen. This project is furthermore the prelude to further upscaling, not only to increase the capacity to one gigawatt, as I have mentioned before, but also to build factories in other regions and countries. Preferably in areas where ample wind reaches land, combined with a good infrastructure, a strong logistics sector, and industrial clusters. In the Netherlands, I am thinking of the IJmond region and the Rotterdam port area. I see a huge potential”, adds Galjee. ≈

**BY JACQUES GELUK**



GRAPHIC IMAGE OF ELECTROLYSIS

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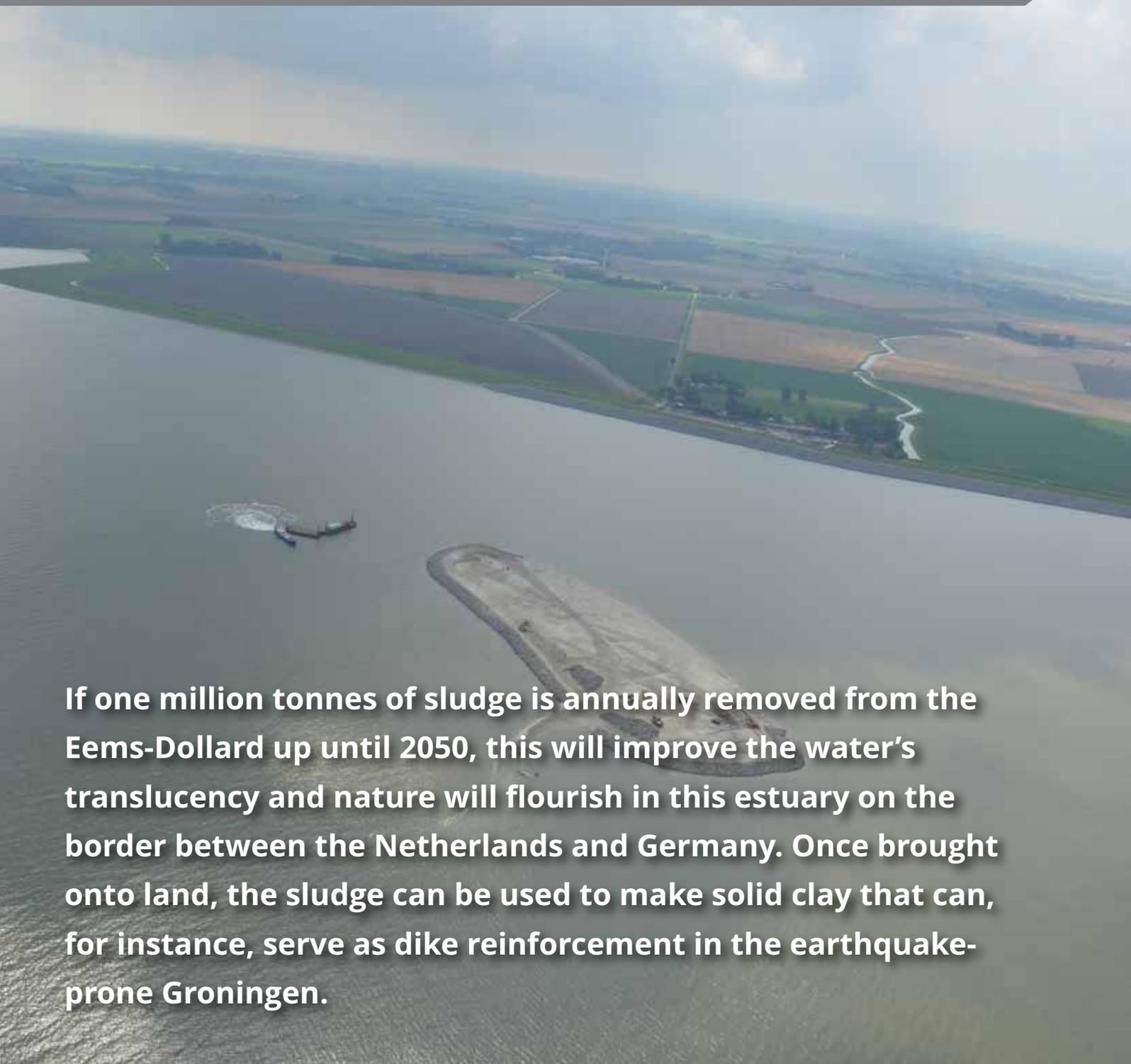
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# Dredging in turbid water

BACKGROUND



If one million tonnes of sludge is annually removed from the Eems-Dollard up until 2050, this will improve the water's translucency and nature will flourish in this estuary on the border between the Netherlands and Germany. Once brought onto land, the sludge can be used to make solid clay that can, for instance, serve as dike reinforcement in the earthquake-prone Groningen.

**T**he Eems-Dollard estuary in the north-eastern corner of the Netherlands has already been filled with turbid water for decades. Each high tide brings more sludge into the system than it can deposit. Most of this sludge comes from autonomous transport along the entire Dutch coast, but dredging activities to keep, for example, the waterways of Groningen Seaports and Emden (in Germany) deep enough contribute to this with several percent. So with each high tide, all of this sludge circulates through the Dollard area like a boomerang. The reclamation of salt marshes has over time resulted in increasingly less space for the sludge to settle. As the sludge remains in suspension, algae do not grow as well, soil organisms are affected, and the food chain is disrupted. Moreover, the transitions where salt water meets fresh water that are distinctive for an estuary – where the German freshwater River Eems meets the saltwater Dollard – have significantly deteriorated.

To reverse this trend, the Eems-Dollard 2050 programme investigates the possibilities of improving nature and ecology, and simultaneously enhancing the Eemsdelta economy. The aforementioned solutions have been calculated in a recently published research carried out by Deltares and commissioned by Rijkswaterstaat (Dutch Directorate General for Public Works and Water Management). “If at least one million tonnes of sludge is annually removed from the Eems-Dollard system up until 2050, there is a good chance that the estuary will not deteriorate further”, comments Bas van Maren, sludge expert at Deltares research institute. The amount of sludge to be dredged is both the result of a complex calculation model and a rather simple mass balance of incoming and outgoing amounts of sludge. “Discharging one million tonnes of sludge each year decreases turbidity by about ten percent”, says Van Maren.

### Clay ripening area

To reduce the costs of this huge operation, three promising measures have already been proposed in the past which need to be tested on a small scale. The most spectacular of the three is a so-called clay ripening area. The sludge from the harbours can be placed in depots on a derelict part of an industrial zone nearby Delfzijl harbours, where it can thicken into solid clay. “This clay is subsequently used to carry out dike

reinforcement activities”, adds Van Maren. An interesting detail is that the sea dikes along nearly the entire Eems-Dollard have been rejected and require reinforcements in the next few years. This needs to be tackled, as this earthquake-prone area cannot handle a dike breach as well. Calculations indicate that the area up to the city of Groningen would fill up like a bathtub. The clay from the ripening area will be used for reinforcing a section of the dike along the Dollard.

Carrying out dike repair activities with ‘local clay’ cuts out the need for clay supply per ship and trucks from Lithuania and Latvia. Another option that is being examined is building blocks pressed from Eems-Dollard sludge.

### Raising cycle

According to Rijkswaterstaat, one variant of ripening the clay is letting the sludge flow onto land via tidal action, and letting it ripen there. This has already been successfully tried on a small scale in the Breebaart polder. With each

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‘Annually discharging one million tonnes of sludge will decrease turbidity by approximately ten percent’

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high tide, the sludge flows through dike culverts. The dynamics of nature in the polder increased and the land was raised a bit with each high tide. Half a metre of clay was deposited in the first five years. Fifteen years later, the area has become so high that sludge can no longer enter. Scraping the ground now will enable the sourcing of local materials here too, and the small polder can begin a new cycle of raising.

### Settling outside of the dike

The third option proposed by Rijkswaterstaat is letting the sludge settle in a controlled manner outside of the dike at natural shallows in the Eems-Dollard. “This can result in islands and new kinds of salt marshes where birds and seals can rest, forage, and seek spawning areas”,

»



comments Van Maren, who speaks of a ‘triple win situation’. “The ecology of the estuary is improved, business models lie on the horizon in the form of clay and bricks, and finally, the nature experience and tourism can increase on the border between land and water.”

### Bird island

Water authority Hunze en Aa’s, the province of Groningen, and Rijkswaterstaat will together with Groninger Landschap, various municipalities,

Groningen. “We will create a very gently sloping dike that juts into the Dollard. A small, low dike will be positioned in front of this which will delineate the area. We will execute this small dike and the widening of the dike using materials excavated from the Breebaart polder, materials from salt marshes elsewhere, and with dredging spoil from Delfzijl harbour”, adds Buurman. A bird island will also be created (see artist impression).

### Dike repair

A second clay ripening area will appear on a 10 hectare section of industrial site Oosterhorn near Delfzijl. Approximately ten different ways on how the soft, salty dredging spoil can in sufficient clay transform in such a way that it becomes suitable for dike repair are currently being investigated on this site. Different technologies are tested, explains Buurman. “Think of dewatering with and without drainage, converting the dredging spoil thrice a year using a crane, letting different types of plants grow on the dredging spoil, and whether or not to add lime. Apart from the fact that it of course needs to turn into good clay, the speed of the process is particularly crucial. After all, we need sufficient material at our disposal to construct more wide green dikes.” This should all be clarified by 2020. ≈

BY RENÉ DIDDE

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‘Increasing the nature experience and tourism on the boundary between land and water’

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and port company Groningen Seaports start realising a pilot project this spring. The water authority will realise a so-called Wide Green Dike on a trial section of just one kilometre of the twelve kilometre long dike to be restored, explains Matthijs Buurman of the province of



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figure 1 & 2: Inward (in)stability effect. JLD-Embankment Stabilizer effect with regard to inward (in)stability.

### INWARD (IN)STABILITY

The core of the JLD-Embankment Stabilizer is based on inward stability. An embankment's inward slope may collapse when there is inward stability or instability. A typical situation is shown in Figure 1 & 2. You can see here that the embankment consists of weak layers on a sandy substrate. A surface that may collapse is created because of the load of issues such as high water levels and traffic, which are greater than the strength.

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The JLD-Embankment Stabilizer is applied in the inner slope of the embankment and is installed from the inner slope or crest and, therefore, a widening of the relevant dike is not required in many cases. Light equipment that has a high production speed is used to install the JLD-Embankment Stabilizer. The elements are only positioned at those locations where they are needed. An efficient design can, therefore, be offered.



figure 3: Reinforcing a test embankment. The JLD-Embankment Stabilizer consists of a long element that is installed in the embankment.

### EFFICIENT & LESS OF AN IMPACT ON THE ENVIRONMENT

If more stability is required in the future because of any amendments to the standard, additional elements can be installed in the ground. The installation of the JLD-Embankment Stabilizer has less of an impact on the environment than piling of sheet pile walls and solutions involving earth filling while a higher production speed can be achieved and, therefore, less inconvenience and pollution can be caused.

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# The Netherlands and Singapore jointly seek circular solutions

**E**ighteen months ago, Van Nieuwenhuijzen, Mark van Loosdrecht from TU Delft, and Roelof Kruize and Kees van der Lugt from Waternet talked to several Singaporean colleagues about circular energy supply and circular economy. “When it turned out that both our countries mainly face the same challenges, we worked out the collaboration and decided to jointly explore solutions for the circular economy. We coordinate this project, also due to the fact that we have a branch in Singapore where we are mostly active in the waste and water sector. Meanwhile, agreements have been made between our Ministry of Infrastructure and Water Management and the Singaporean Ministry of Water Resources and Environment. I hereby notice that our Asian partners look somewhat further ahead with regard to the circular economy than we do, with the year 2100 as their horizon. They now want to focus especially on resource recovery and renewable energy.”

## How is the project organised?

“The public and private partners that will carry out the explorations and realisation of circular solutions in the field of sludge and waste processing and resource recovery, work together

in the Partners for International Business (PIB) programme within the ReCirc Singapore cluster, an initiative of Witteveen+Bos, TU Delft, Waternet, and the Amsterdam Institute for Advanced Metropolitan Solutions. The Netherlands Enterprise Agency (RVO), part of the Ministry of Economic Affairs, facilitates the project in which Nijhuis Industries, Paques, CirTec, World of Walas, Asia Pacific Breweries (‘a Heineken company’), Organic Village, KWR Watercycle Research Institute, Wageningen University and Research, and Upp! UpCycling Plastic are also involved.

“The participants of the consortium will in the exploratory phase especially focus on waste-related subjects, waste water, and sludge, for which we have identified measures in the Netherlands, but for which we do not yet have a total solution. The six themes include: (1) treatment and recovery of bottom and fly ash, (2) sorting, separating, and recycling urban waste, (3) integrated recovery of renewable energy and resources from waste water and sludge, (4) processing and recovering packaging material and plastic waste, (5) food waste treatment and resource recovery, and (6) e-waste treatment and recovery of valuable materials”, Van Nieuwenhuijzen adds.

“The thirteen partners will first map out all the

**The Netherlands and Singapore have more in common than you might expect. Just think of the surface area, population density, ageing, and the associated critical waste (water) problems. Thirteen public and private partners signed a cooperation covenant at the end of 2017, in which they commit to carrying out explorations in circular solutions in the field of sludge and waste processing and recovering resources in Singapore and the Netherlands, as well as realising these solutions. A dialogue with Arjen van Nieuwenhuijzen, who will lead this project on behalf of the coordinating consultancy and engineering firm Witteveen+Bos.**

#### INTERVIEW

waste and resource flows. A workshop was organised in April and used to find solutions for the future that they can work on together with the Singaporeans. In Singapore, 5.6 million people live on a surface area of 720 km<sup>2</sup>, comparable to the area between Amsterdam and Rotterdam. The city-state is even more densely populated than the Netherlands. The problems are similar to ours, but not identical. Waste is a bigger issue over there than waste water. The water system is already quite circularly designed, which is why our focus lies firstly on their waste routes and the corresponding problems that require a pragmatic approach.”

#### **Is Singapore a role model?**

“The technical status of Singapore is higher than that of most other Asian cities and countries. The city-state has a highly cultivated, though fundamentally linearly built, infrastructure, to which changes could certainly be made. They are, as mentioned before, definitely interested in a circular structure and economy, but are not ready for this yet. Moreover, self-sufficiency is very important. Singapore wants to be able to operate autonomously in the region, without depending on the neighbours and burdening them. They therefore want to solve their own waste issues. They already do so by converting *used water* »



ARJEN VAN NIEUWENHUIJZEN  
IS PROJECT LEADER OF THE  
RECIRC PROJECT ON BEHALF  
OF THE COORDINATING  
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'This is a kind of acquisition course to sow seeds for the circular economy, after which we can harvest'

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– waste water is a forbidden word – in a very short cycle into supplementary water for drinking water supply. This results in excellent drinking water that you can drink straight from the tap.”

“Ample water issues have already been resolved. At the same time, the Singaporeans use fairly expensive energy and chemicals for technology that is not yet sustainable or circular. We contribute our knowledge of energy and resource factories from the Netherlands to show that there are much more sustainable and more circular ways to achieve the same results. Waternet is in our consortium. This enterprise has the sewage water treatment in Amsterdam-West and Afval-energiebedrijf (Waste Energy Company) standing side by side, by which it can process sludge in a very useful and energy-saving manner. Singaporean water company PUB will build a similar installation in Singapore, only four times larger. Waternet and PUB are therefore in a memorandum of understanding exploring an active collaboration in the operational field.”

#### **What is the business model?**

“The relations between the Netherlands and Singapore have already been outstanding for a very long time. It is interesting that the economic model of Singapore was once concocted by the Dutch economist Albert Winsemius (1910-1996; father of Pieter Winsemius, ed.). On a ministerial level, the Singaporeans are interested in our view on a circular economy and in our environmental ambitions. They for instance look at how we handle fly ash and bottom ash from incineration plants, and at the quality of our water and environmental technology, for which we are highly regarded. The collaboration within the ReCirc PIB programme should – after the explorative and initiating phases – lead to the Singapore-Netherlands Centre of Excellence on Resource Recovery for Circular Economy (from 2021 onwards).”

“The intention is that feasible business cases will emerge from this programme. We are a consortium in which businesses, governments, and

research institutes work together. Suppliers want to offload their equipment. An added value for participants is that this programme is a sort of shop window through which we can show Dutch products, equipment, and knowledge, which will give us a competitive edge and enable us to ultimately start work during the realisation phase.”

“Witteveen+Bos is an independent advisor and system integrator in all of this. We try to demonstrate in Singapore our capacities in the field of feasibility studies and (circular) design activities. The RVO facilitates the programme financially due to its entrepreneurial nature, by doubling the efforts of businesses, for example with regard to attending trade fairs, communication, and spreading communal messages. This helps us to expand our circle of contacts. This is in itself a kind of acquisition course to sow seeds for the circular economy, after which we can harvest. As Singapore is a shop window for other developing cities in the region, a programme like this means that we can also gain a competitive advantage elsewhere.”

#### **Apart from Singapore, how important is circular economy for Witteveen+Bos?**

“We have already been working on this for years. In the energy, water, and environment sector, circular economy is the binding factor and is now a leading basic design principle in our company, as seen from our seven sustainable design principles. We do a lot in this field in the Netherlands and play a guiding role in this. We map out fresh water reserves, energy supplies, nutrients and flows of resources for the water authorities, in order to clarify how they can achieve circularity and an energy transition.”

“We are now working for Wetterskip Fryslân and Waterschap Vallei en Veluwe that – together with municipalities – have a strong ambition in this. We are looking at infrastructural works for Rijkswaterstaat (Department of Waterways and Public Works) in which innovation and circularity are very important, such as InnovA58, a highly innovative replacement of the A58 motorway between Breda and Eindhoven to solve capacity bottlenecks. Our society should be circular by 2050. We clearly see that Rijkswaterstaat, ProRail, provinces, water authorities, and drinking water companies, as well as construction enterprises are busy searching for ways to realise this ambition. Circular economy is also a sector-integrating design principle for Witteveen+Bos. The residue of one sector becomes the building material for another.”



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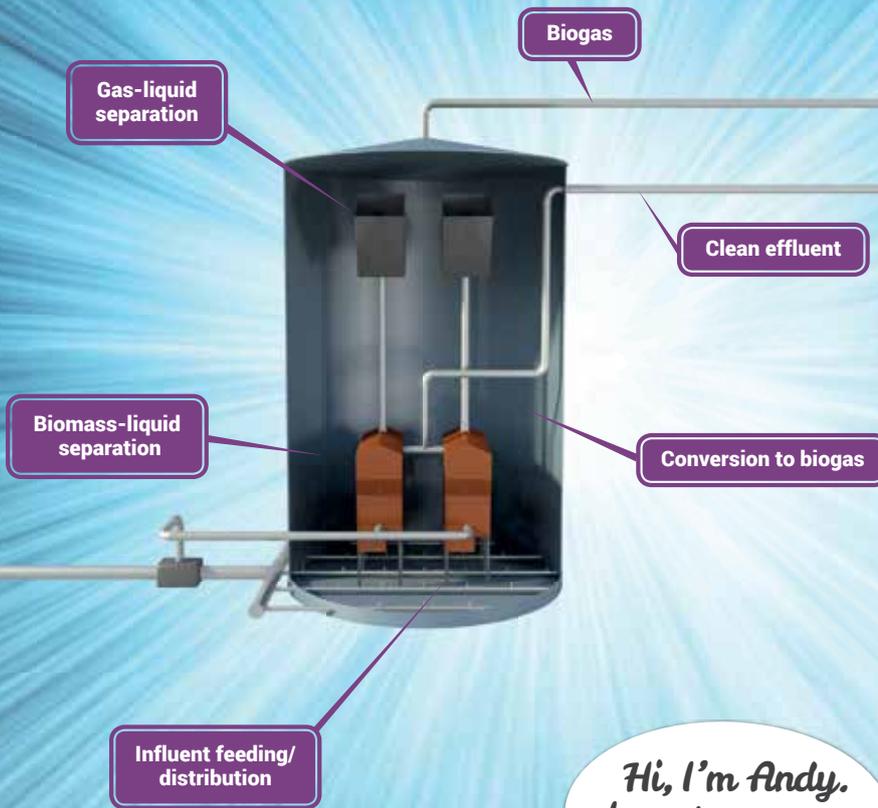


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# Index

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Waste water	56	Information technology	62
Drinking water	57	Personnel & training	63
Ground water	58	Learning work companies	63
Surface water	58	Business information	63
Process water	59	Infrastructure	64
Sewerage	60	Index of addresses	65
Consultancy & engineering	61		

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 p32

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p32

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p26, 27

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p35

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**Wereld Waternet**

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**Wetlands International**

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**Wetsus, European centre of excellence for sustainable water technology**

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