

PIB Waste to Resource China

A Partnership for International Business



NL

Netherlands

Foreword

No time to waste.

As the world races toward nine billion people within the next decade, the tide of waste is rising fast. Growing middle classes worldwide are driving unprecedented consumer demand; and with it, a surge in discarded materials. The challenge is clear. But so is the opportunity.

For decades, Dutch government agencies, universities, and companies have pioneered groundbreaking solutions that turn waste into valuable new resources. Now we are taking that expertise global.

Following the successful 2023 mission to southern China, the Consulate General in Guangzhou together with a dedicated company cluster launched a Partners in International Business (PIB) project to connect Dutch innovators with Chinese partners. Two years on, the Waste to Resources (W2R) cluster is thriving; growing in participants, momentum, and impact. Backed by Netherlands Enterprise Agency (RVO) and the Netherlands Economic Network, this dynamic collaboration is proving what happens when ambition meets action.

2026 marks an exciting new chapter: High-level visits to China continue, while the cluster simultaneously expands into promising new markets. Every step contributes to a cleaner planet while unlocking new economic opportunities; for the Netherlands and its partners alike.

As the Netherlands China Network contact for this PIB project, and on behalf of the entire Netherlands economic network in China, I am proud to see what this cluster is achieving.

To all W2R members: The world needs your solutions. China is ready for them. Go seize the moment... and keep leading the way.



Antoni Mandemaker
Deputy Consul General
Consulate General of the Netherlands in Guangzhou

China and the Netherlands: Turning waste into resources together

Climate change poses a significant threat globally, necessitating immediate action to mitigate its effects. The need to enhance resource efficiency and transition towards a circular economy has become a priority for nations worldwide, especially for China, which is committed to reducing carbon emissions and optimizing waste management.

In this context, sustainable waste management, circular economy solutions and clean technologies plays a pivotal role. China's focus on transforming its waste treatment processes and increasing material reuse aligns seamlessly with global environmental goals. By improving wastewater treatment and increasing recycling efforts, China is not only addressing local challenges but also contributing to the achievement of the UN's Sustainable Development Goals (SDGs).

Introducing PIB Waste2Resources

The Waste2Resources China (W2RC) initiative is a public-private partnership that brings together Dutch and Chinese expertise to foster innovation in sustainable waste management, circular economy solutions and clean technologies. This collaboration is part of the Partners for International Business (PIB) programme which, over a period of three years, brings together companies, government organisations and knowledge partners from both countries.

Through activities in China and the Netherlands, the initiative aims to advance sustainable development, strengthen knowledge exchange on policy and technology, and create mutually beneficial business opportunities. By combining innovation, practical experience and international cooperation, the programme contributes to building stronger circular value chains and more sustainable industrial systems.

A Historical Partnership

The historical ties between China and the Netherlands provide a solid foundation for this collaboration. Both nations share a deep commitment to innovation and sustainability; and a mutual recognition that the most



pressing environmental challenges are best tackled together. By combining our collective knowledge and resources, our two countries are uniquely positioned to drive meaningful progress in waste management and resource reuse.

The Netherlands

The Netherlands is widely recognised for its expertise in water management, waste treatment, and circular economy solutions. Dutch policy is built on an ambitious goal: to fully decouple economic growth from the use of primary resources and become a fully circular economy by 2050.

This ambition is rooted in centuries of collaborative problem-solving. From managing water and land together, to developing advanced waste

management systems and environmental technologies over the past 150 years, cooperation and ingenuity are woven into the Dutch approach. Today, the Netherlands functions as a living laboratory for circular economy innovation: A place where governments, companies and knowledge institutes work side by side to develop and scale solutions that work in the real world.

But Dutch expertise goes beyond technology. Equally valuable is the experience of integrating technical solutions with policy frameworks, financing models, and multi-stakeholder partnerships. The connective tissue that turns circular innovation into lasting impact.

China

China is one of the world's largest and most dynamic economies, and a driving force in the global scale-up of green technologies. Significant progress has been made in advancing China's ecological civilisation agenda, underpinned by strong policies targeting pollution reduction, climate action and resource efficiency.

China's shift toward greener, high-quality development reflects a broader alignment with global sustainability ambitions; and as a major trading nation, China is increasingly benchmarking its environmental performance against international standards and reporting frameworks.

Circular economy principles, improved waste management, and cleaner industrial processes are central to this transition, creating a strong basis for partnership with a country like the Netherlands, where these challenges have long been addressed at scale.



About the PIB Programme

The PIB Waste2Resources China programme is designed to open new market opportunities and deepen cooperation between Dutch and Chinese partners across sustainable waste management and circular economy solutions.

Participating companies are active across four interconnected sectors:

- Solid waste management
- Wastewater treatment
- Flue gas and waste air treatment
- Advanced waste treatment processes

These partners are deliberately selected to complement one another: working together within the programme to deliver integrated, mutually reinforcing solutions rather than isolated interventions.

The programme is backed by the Dutch government, including the Dutch Embassy and Consulates in China and the Netherlands Enterprise Agency, in a sustained, multi-year effort to strengthen the position of the Dutch waste treatment and clean-tech sector across China and the wider Asian market.

On the ground, a dedicated Liaison Officer in China keeps the programme connected, facilitating introductions to local partners, potential customers and regional stakeholders. The programme also regularly welcomes Chinese delegations to the Netherlands to exchange perspectives on policy development, innovation and practical implementation.

At the institutional level, Rijkswaterstaat leads government-to-government cooperation, while Holland Circular Hotspot drives knowledge exchange and helps build a broader circular economy community between both countries.

Together, the partners bring a distinctive combination of strengths: Innovative and proven environmental technologies; experience in policy development and regulatory implementation; a collaborative, quadruple-helix approach to multi-stakeholder engagement; and extensive international experience in sustainable infrastructure and resource management.

Activities

The PIB Waste2Resources China programme has been active since September 2024. Since then, several Chinese delegations from different regions have visited the Netherlands for company visits, exchanges with government and knowledge institutions, and participation in international events such as Aquatech Amsterdam.

- The PIB delegation has also conducted missions to several Chinese regions, including Guangzhou, Guangdong Province, Shanghai, Jiangsu Province, Chongqing, and Sichuan Province.
- In April 2026, the delegation will participate in IE Expo China in Shanghai and visit Jinan in Shandong Province.
- Shortly afterwards, Dutch and Chinese partners will meet again at IFAT Munich in May 2026, the world's largest environmental technology exhibition. Following this event, a Chinese delegation will visit the Netherlands to further deepen cooperation and explore new partnerships.
- Looking ahead to 2027, the programme foresees two incoming delegations from China and one additional outgoing mission.

Cooperation

By working together, China and the Netherlands can combine complementary strengths in circular economy and waste and water management to address shared challenges: From water scarcity and resource reuse to emission reduction. Through open dialogue, technology cooperation and knowledge exchange, both countries are well placed to accelerate practical solutions that support sustainable economic development for years to come.

A shared path towards a circular future

The Netherlands and China have a long history of cooperation in trade, technology, and knowledge exchange; and that foundation has never been more relevant. By bringing together Dutch expertise in circular economy and environmental technologies with China's capacity for innovation and large-scale implementation, new opportunities emerge for both countries and for the wider world.

This partnership also contributes to broader international efforts to promote sustainable development and responsible resource management, demonstrating that cross-border collaboration can deliver results where they matter most. Together, we can transform waste into valuable resources, strengthen sustainable industries, and help build a more resilient and circular global economy.

Public Private Partners

When a Partners for International Business delegation arrives, it represents more than commercial interest. It reflects a considered, government-endorsed commitment to building meaningful, enduring relationships. Behind each cluster stands the institutional support of the Dutch government, its diplomatic network, its knowledge institutions, and its long-term vision for mutual prosperity. Beyond a transactional engagement, a PIB is a structured expression of trust, designed to create lasting value for both sides. We come not to extract opportunity, but to build it, together. Through shared knowledge, mutual respect, aligned ambition, and the kind of partnership that honours the significance of the relationship.



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Beepro is a professional specializing in dust control, extraction, and induction separation. With our expertise, technical knowledge, and immense passion for the trade, we help hundreds of companies pursue safety and business goals. And all of this by solving their dust problems. By actively engaging in recycling, we aim to make (residual) waste useful for society.
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Dorset

Dorset Green Machines pioneers the transformation of organic residue into valuable resources. As a global leader in biomass processing equipment, we specialize in solutions treating poultry, pig, biogas, and sludge residue into usable resources.

We focus on the following concepts:

- Drying poultry manure with use of farmhouse air
- Drying digestate with use of waste heat from CHP cooling water
- Drying sewage sludge with use of waste heat from energy production
- Drying woodchips with waste heat from energy production

Our expertise lies in innovative solutions in:

- Drying
- Pelleting
- Air Cleaning

Committed to sustainability and innovation, we lead the way in the shift from residue to resource, driving greener, more resource-efficient industries worldwide.

Dorset Green Machines - Residue to Resource
<https://www.dorset.nu/nl/>



Wilco van Wijck
Founder

Bouman Industries

Bouman has increasingly focused on producing parts and complete installations for customers in sustainable applications since 1950, such as solutions for water purification system, CO₂ capturing system, waste treatment for edible oil & food industry etc.,. With the know-how and technology in house, Bouman Industries is capable of deliver the turnkey projects based on the customers' demand.
bouman.nl



Frank Sanders
CEO

Carbotreat is a leading global provider of carbon capture solutions. We develop, manufacture, market and service capture and utilization systems for use in new or existing installations. Carbotreat has a team of professionals covering all aspects of a carbon capture business. Carbotreat is dedicated to being a highly competitive company in its market segment by providing innovative products and maximum customer satisfaction. Continued improvement of products, processes and the organization are an integral part of Carbotreat strategy and quality policy. The carbon capture unit exhibits world class efficiency, is scalable to virtually any process size and can be installed as part of a new installation or easily be added to existing equipment. Carbotreat can also offer bicarb systems that produce sodium bicarbonate from captured CO₂. This can not only be used to produce baking soda but can also be applied as feedstock for other processes, such as emission reduction systems. Our liquefaction units convert captured CO₂ from gas into liquid. In liquid form the CO₂ can be used in other processes, such as fertilizer in greenhouses, feedstock for e-fuel production or transported to a facility for permanent storage. The Carbotreat carbon solutions are field proven and enjoy great market success worldwide.

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Business Development / Sales

Centritech Liquid Improvement helps customers with liquid filtration- and separation solutions. With over 40 years of experience, we give advice on the foreseen process and supply equipment. Our equipment is suitable for liquid/liquid separation and liquid/particle filtration. Beside our standard available equipment we also design, engineer and supply custom made solutions for specific processes. Solutions are suitable for chemical industry, food, waste water industry.
<https://centritech.nl>



Bio-UP is a spin off from CCS Energy Consultancy. CCS has operated in the Netherlands and abroad for over 20 years. In the Netherlands, CCS is one of the pioneers in biogas. CCS has extensive knowledge of this field and is involved in the delivery of several systems. CCS believes in farm-scale mono-manure digestion and initiated the development of the Bio-UP on the basis of that philosophy. The Bio-UP has been developed in collaboration with our partner Greenmac, part of the Rootselaar Group. Greenmac originates from Cirmac Upgrading Systems and has an extensive track record in the field of biogas-upgrading in the last 30 years.
<https://www.ccsenergieadvies.nl/en/branches/agricultural/bio-up/>



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NX Filtration

NX Filtration B.V., headquartered in the Netherlands and originating from the University of Twente, possesses the patented dNF hollow fiber nanofiltration membrane that exhibits selective ion removal capabilities, making it highly suitable for drinking water, wastewater reuse, and compliance with emission standards

- The first company listed on the Amsterdam Stock Exchange with a green label global, as assessed by the European International Climate Research Center in 2021 (stock code NXFIL.AS)
- 2021 Frost & Sullivan Global Innovation Award (Water and Wastewater Sector) 2021 Breakthrough Technology Company of the Year - Global Water Awards
- Global Water Initiative (GWI) Breakthrough Technology Award 20212021 Breakthrough Technology Company of the Year - Global Water Awards
- Global Water Initiative (GWI) 2023 Water Treatment Company of the Year and Water Project of the Year Awards 2023 Water Technology Company of the Year - Global Water Awards
- In June 2022, it was rated as a high-growth and technology-leading company by the Pan-European Exchange <https://www.euronext.com/en/raise-capital/euronext-tech-leaders>

<https://nxfiltration.com/>



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Paques

Founded in 1960 and headquartered in Balk, the Netherlands, Paques is a subsidiary of Germany's SKion Water and a leading provider of complete biotechnology solutions for wastewater and gas treatment. With over 3,400 projects implemented in more than 60 countries, Paques is dedicated to developing sustainable biological solutions that effectively treat wastewater and convert it into bio-energy. We combine deep expertise with reliable technology and a global network to support clients in achieving their sustainability goals. As a trusted partner in sectors such as brewing, distilling, pulp & paper, chemical, and food production, Paques helps industries utilize resources efficiently.

To better serve the Chinese market, Paques established Paques Environmental Technology (Shanghai) Co., Ltd. in the Pudong New Area in 1997. To date, Paques Shanghai has completed nearly 1,000 projects in China. Operating with a global R&D center and its own local factory, the company is committed to innovating low-carbon, green technologies and delivering first-class patented products to support the sustainable development of its customers in China.

<https://www.paquesglobal.com/>

Want to learn more?



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Holland Circular Hotspot

Holland Circular Hotspot (HCH) is a private entity with a public-private mission: to build thriving circular ecosystems globally and seizing circular business opportunities worldwide. We embody the collective and century old knowledge of the Netherlands in Waste Management and Circular Economy

Since 2018, we have shared Dutch circular economy insights across the globe, catalysing countless international business connections, establishing a global network of circular hubs, and hosting landmark Circular Hotspot events that today take place on five continents. HCH is a mover and a shaker the global circular movement.

What we do

Open up circular market opportunities and build circular ecosystems Connect business, knowledge, and government partners across borders (B2B, K2K, G2G) Help circular entrepreneurs thrive abroad— and bring international pioneers into Europe

We facilitate

Trade missions, learning expeditions, workshops, keynotes, and training sessions Coalition building and tailored support for enterprises and regions Access to finance and networks via our global connections

How we work

Map and match circular needs and solutions between the Netherlands, Europe, and promising international regions Share Dutch and European innovations, market trends, and regulatory insights Facilitate trainings, events, and circular missions that spark real-world collaboration



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Get in contact!

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