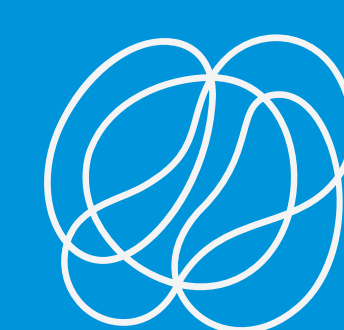


Welcome to the Innovation Plaza

Meet innovative SME's
and explore new ideas

ISPT Conference '25
- Northern Netherlands edition



Institute for
Sustainable
Process Technology

In collaboration with
Province of Groningen
Groningen Seaports
& Chemiepark Delfzijl

TORWASH - create a waste free future together



www.torwash.com
levien@torwash.nl

About the organisation

TORWASH is a spin off company from TNO, focusing on development of a process for chemical recycling of bio-degradable plastics for production of virgin bio-degradable plastic. Founded in 2020.

Solution for

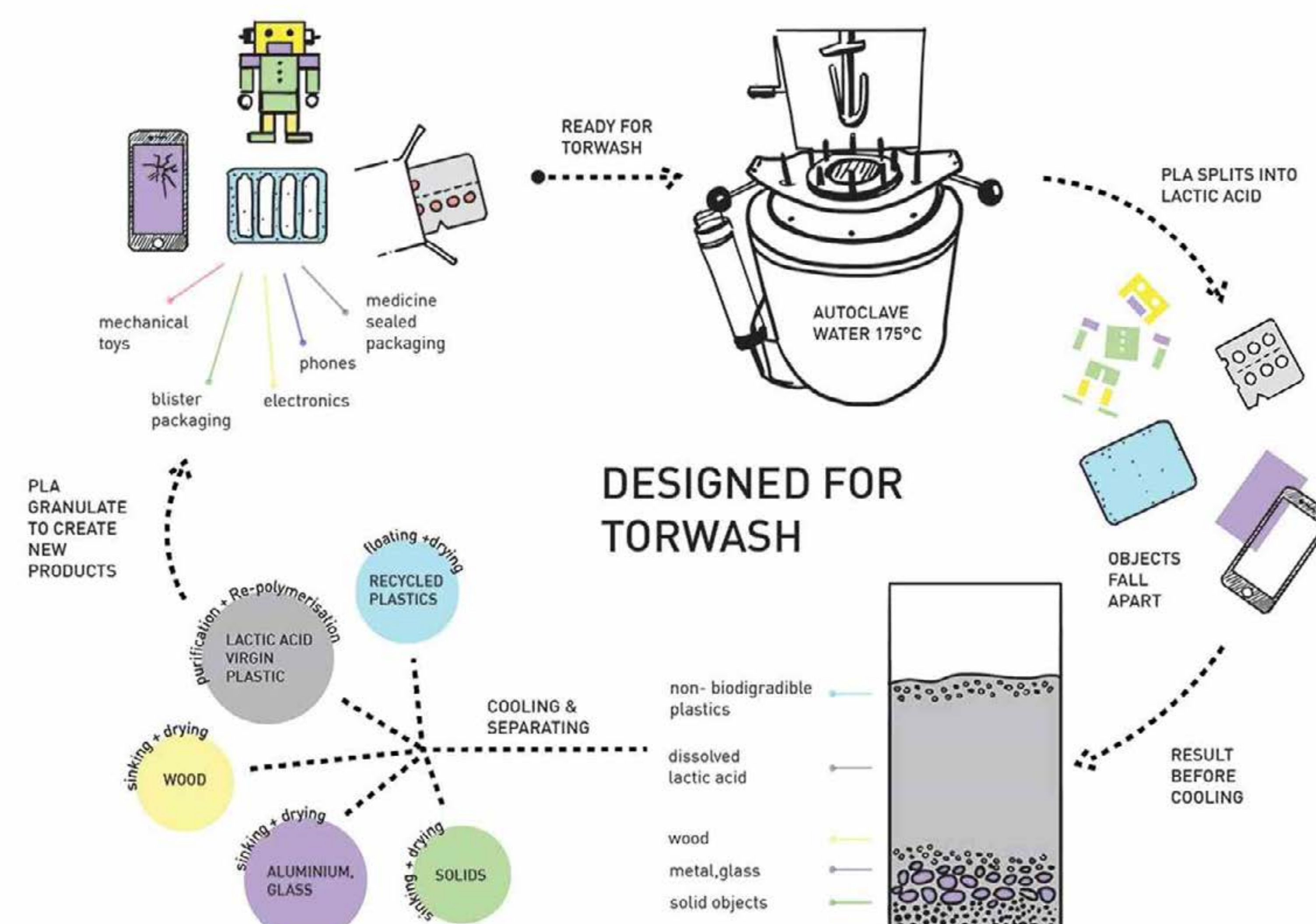
Chemical recycling of bio-degradable plastics of post-consumer plastics are converted into feedstock for production of virgin bio-degradable plastic.

We offer

Lowering the need for sugar as feedstock, resulting in reduction of the price for bio-degradable plastics and a stronger competition with (fossil) non degradable plastics. By replacing non-degradable plastics, the problem of persistent microplastics and litter is solved.

We need

After receiving grants from an EU and a Dutch programme, TORWASH is looking for investors to join this breakthrough innovation and co-fund the design and building of a mobile pilot plant processing 500 kgs post-consumer plastic per day. This round we are looking for 500K€.



Hexwise - Achieve Optimal Performance with Advanced Insight Into Heat Exchangers



www.hexwise.io
nielsbergma@hexwise.nl

About the organisation

Hexwise is a deep-tech start-up focused on optimizing industrial cooling systems that use ambient air — including air-cooled heat exchangers, condensers, and cooling towers. We address this by delivering AI-driven control (Hexwise Harmony One) and predictive analytics (Hexwise Vision One) that turn data into smarter, more adaptive cooling. Founded in 2023.

Solution for

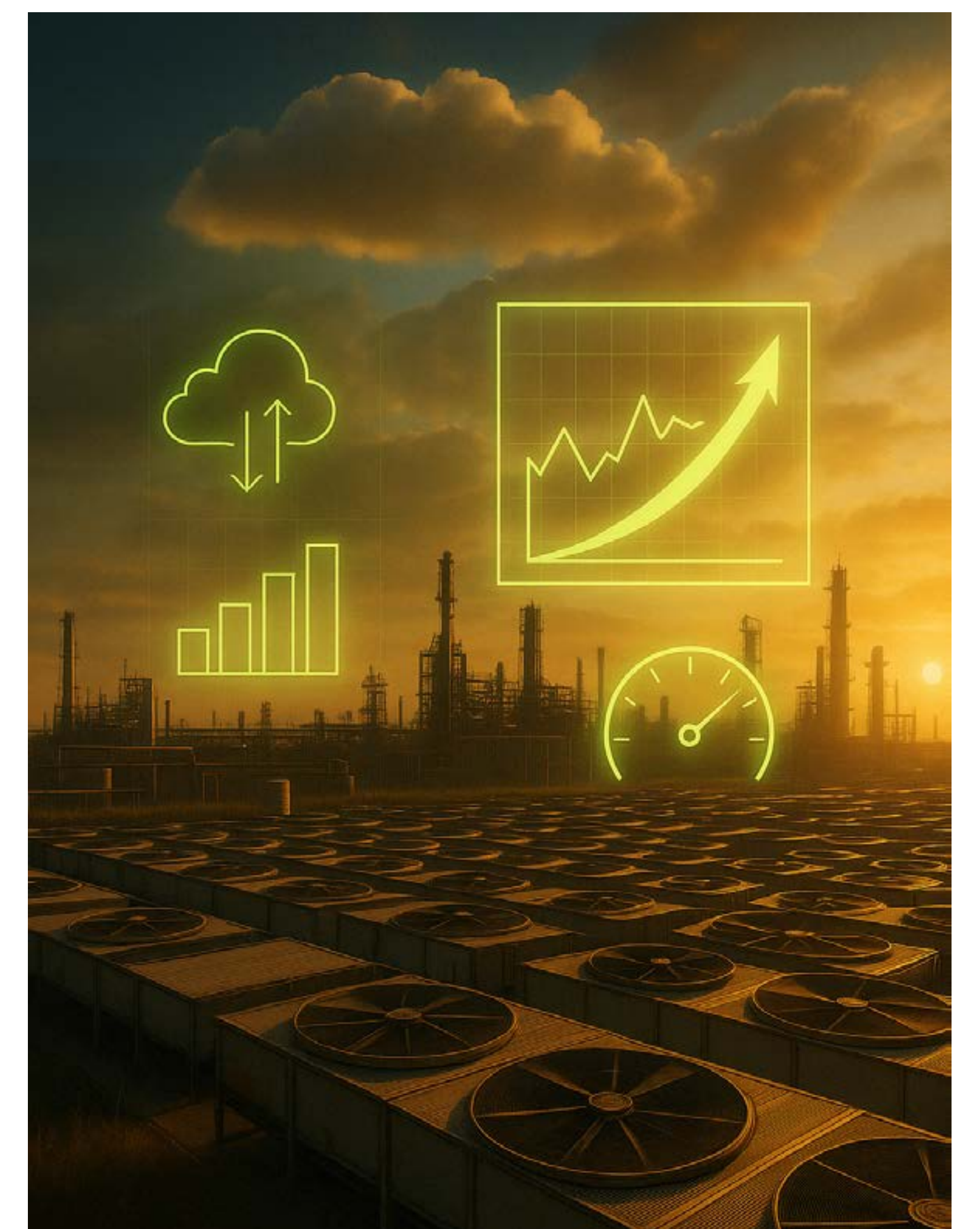
Facilities facing growing challenges: hotter and longer summers straining air-based cooling, reduced energy efficiency, and rising operational risk.

We offer

- Optimized real-time control of cooling systems to reduce energy use, emissions, and operational inefficiencies
- Predictive insights and condition monitoring to enable smarter maintenance, cleaning, and system improvements.
- Increased production, energy efficiency and shifting operations from reactive to proactive
- Modular, low-risk, and easy to apply solutions across industries

We need

- Industrial partners in power, oil and gas, chemical, and data centers
- Process and energy managers looking to boost production, efficiency, uptime, and cooling resilience
- OEMs, EPCs, and system integrators to embed smart control and analytics into existing cooling systems
- Technology integration partners (e.g., ABB, Siemens, edge platform providers)
- Investors and innovation collaborators focused on increasing industrial efficiency and accelerating industrial decarbonization



ChainCraft - Turning chemistry circular



www.chaincraft.com
info@chaincraft.com



About the organisation

ChainCraft is a circular chemistry scale-up based in Amsterdam. We upcycle food residues into valuable bio-based fatty acids using a natural, non-GMO fermentation process. Founded in 2010.

Solution for

Our products offer sustainable alternatives to fossil and palm oil-based ingredients used across sectors such as animal nutrition, personal care, and chemicals.

We offer

- The production of bio-based fatty acids from food waste streams
- A natural, non-GMO fermentation process that avoids food crop competition
- Palm-free, vegan, and fully renewable fatty acids
- Reduced CO₂ emissions by up to 4–6 times compared to conventional feedstocks
- Support for the decarbonization of multiple industries with a drop-in circular solution

We need

- Strategic and industrial partners for scaling applications in food, feed and chemicals
- Investors to support the construction of our first full-scale factory
- Brands looking to replace fossil- or palm-based inputs with circular alternatives
- Collaboration with R&D teams to co-develop new applications

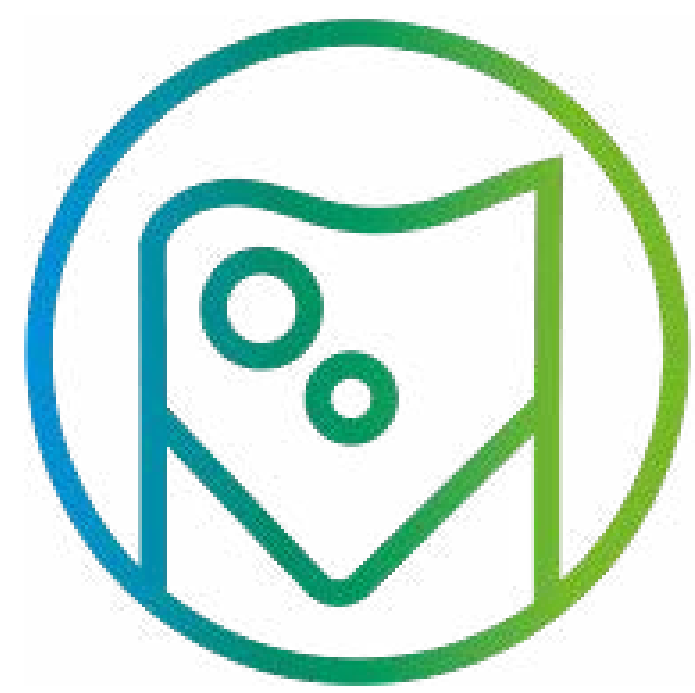


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Innovation Plaza

Biotechnology Fermentation Factory

Empowered by NIZO



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info@bff-edc.com
marcel.oogink@bff-edc.com

About the organisation

The Biotechnology Fermentation Factory Ede BV is your trusted hub for scaling fermentation innovation. We lower barriers to growth by combining public-private expertise, centralized validation, and smart capital efficiency. Founded in 2024.

We offer

- Verifying and optimizing lab-scale fermentation processes for successful scale-up
- Producing sufficient volumes (up to 10,000 L) for testing the final product in downstream customer applications
- Avoiding significant CapEx and OpEx investments by outsourcing validation to our facility
- Speeding up the commercialization path by bridging the lab-to-market gap
- Minimizing technical and financial risks for both companies and their investors.

Thus, we provide technological validation and de-risking as a service

We need

- Startups: Early-stage companies developing novel fermentation-based products
- Scale-ups: Companies with validated lab processes looking to move toward industrial production
- Corporates: Larger companies exploring new technologies or markets
- (Indirect) Investors: Benefit from reduced capital requirements per startup



Ocean Grazer - Recharge Generations



www.oceangrazer.com
info@oceangrazer.com

About the organisation

We are a Dutch company pioneering sustainable energy storage solutions. Originally established as a spin-off from the University of Groningen, the company has developed the innovative AquaVault. The AquaVault is a modular, eco-friendly system that stores excess renewable energy by moving water between flexible bladders and rigid reservoirs. Founded in 2018.

Solution for

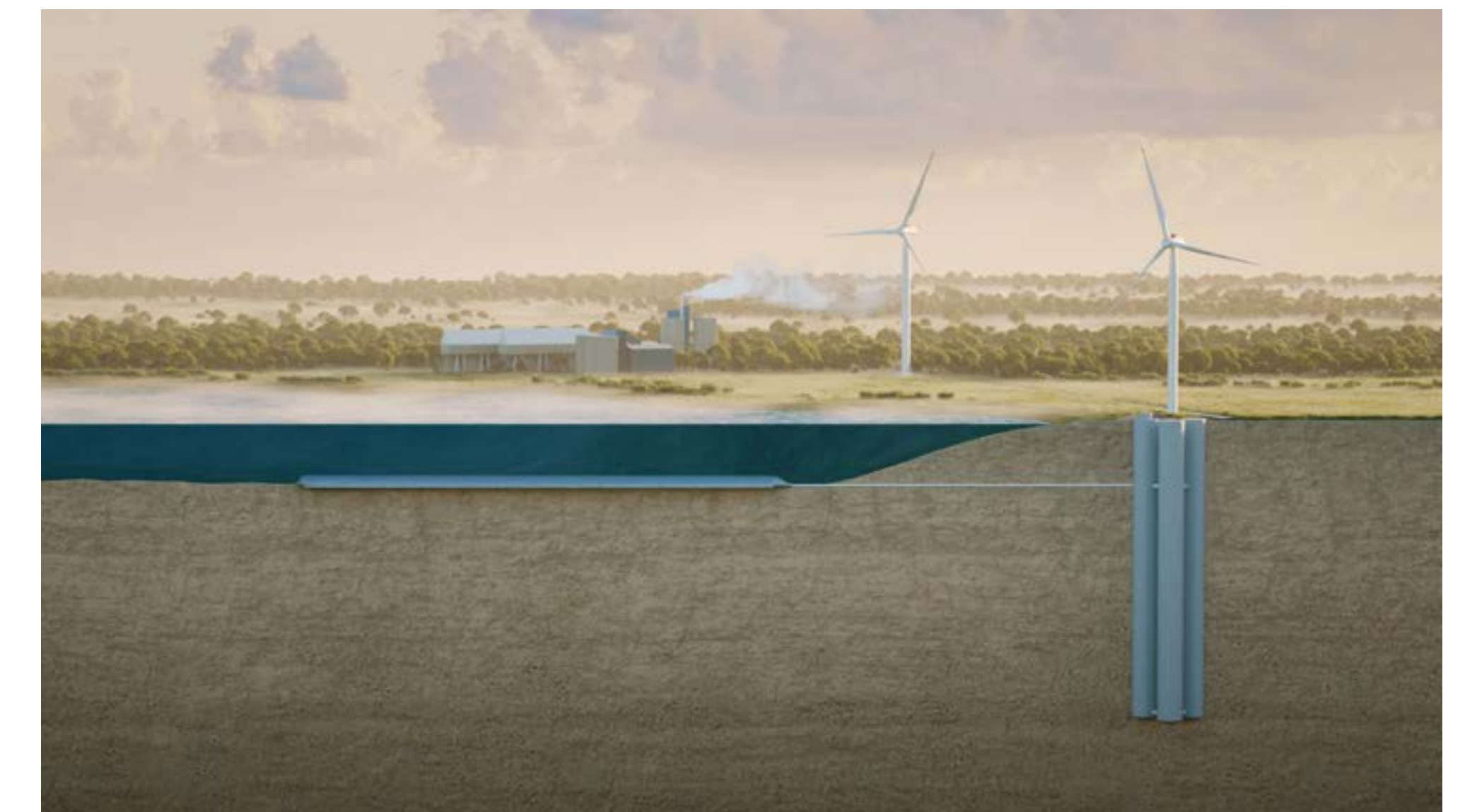
Enhancing the reliability of renewable energy. Wind and solar energy production is unpredictable, this creates a growing need for energy storage at the source to prevent grid overload.

We offer

- Aquavault is an innovative energy storage solution that uses water pressure and gravity to store and release energy—offering scalable, long-duration storage
- Boosting Renewable Energy Integration
- Circular by Design
- No Dependency on Critical Raw Materials
- Driving Local Impact

We need

- Investors for our large-scale AquaVault pilot
- Strategic Partners (technology developers, offshore contractors, and energy providers)
- Clients and locations with suitable water locations (lakes, sand quarries, etc.)
- Ambassadors and supporters



Brusche Process Technology

Process technology from design to realisation



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a.roeloffzen@brusche.nl
t.vanschagen@brusche.nl

About the organisation

Brusche Process Technology is the technology partner for both industry and knowledge institutions for the entire CCU(S) process – from CO₂ capture from flue gases, through liquefaction and methanol synthesis, to cutting edge pilot and demonstration plants for the production of green platform chemicals and e-fuels. Our systems help industries maximize resource efficiency, reduce emissions and support a circular carbon economy. We are involved in the whole process from design to realisation. Founded in 2021.

Solution for

- Closing the carbon cycle by providing complete CCU solutions
- Solution for decentralized green methanol production with renewable energy with our Dyna-Loop technology

We offer

- Pilot and demo plant services to test new, innovative processes
- In-house process engineering department to develop the optimal process design

We need

- Locations with renewable energy production as input for our Dyna-Loop green methanol technology
- Collaboration with users of green methanol, like the chemical industry or heavy transport sector
- Sources of biogenic CO₂ or CO₂ captured from the air
- Clear guidelines and a long-term vision on the energy transition and e-fuels in particular



RNsolutions



www.rnsolutiosbv.com
info@rnsolutionsbv.com

About the organisation

RN Solutions is a developer and manufacturer of patented membrane distillation (MD) modules for pure water production and process separations. The company is based in Sint Oedenrode, the Netherlands and has a global installed base. Founded in 2016.

Solution for

Our technology enables industries to reduce freshwater dependency and maximize resource efficiency, making sustainable water purification both practical and profitable.

We offer

- MD uses low value heat (waste heat, solar) to convert low value water (seawater, brackish water, effluent) into high value pure water
- It requires minimal pretreatment (taking out abrasive particles only)
- It operates at low temperatures (50oC) and low pressure (<1 bar)
- No chemicals required, just periodic condensate backflush
- No need for corrosion resistant steel, all plastic piping

We need

- Customers needing pure water and having access to waste heat
- Investors
- Research partners



Perpetual Next

Redefining Resources: Biocommodities



perpetualnext.com
info@perpetualnext.com

About the organisation

Perpetual Next builds, owns, and operates production facilities that convert organic residual waste streams into biocommodities. Founded in 2019.

Solution for

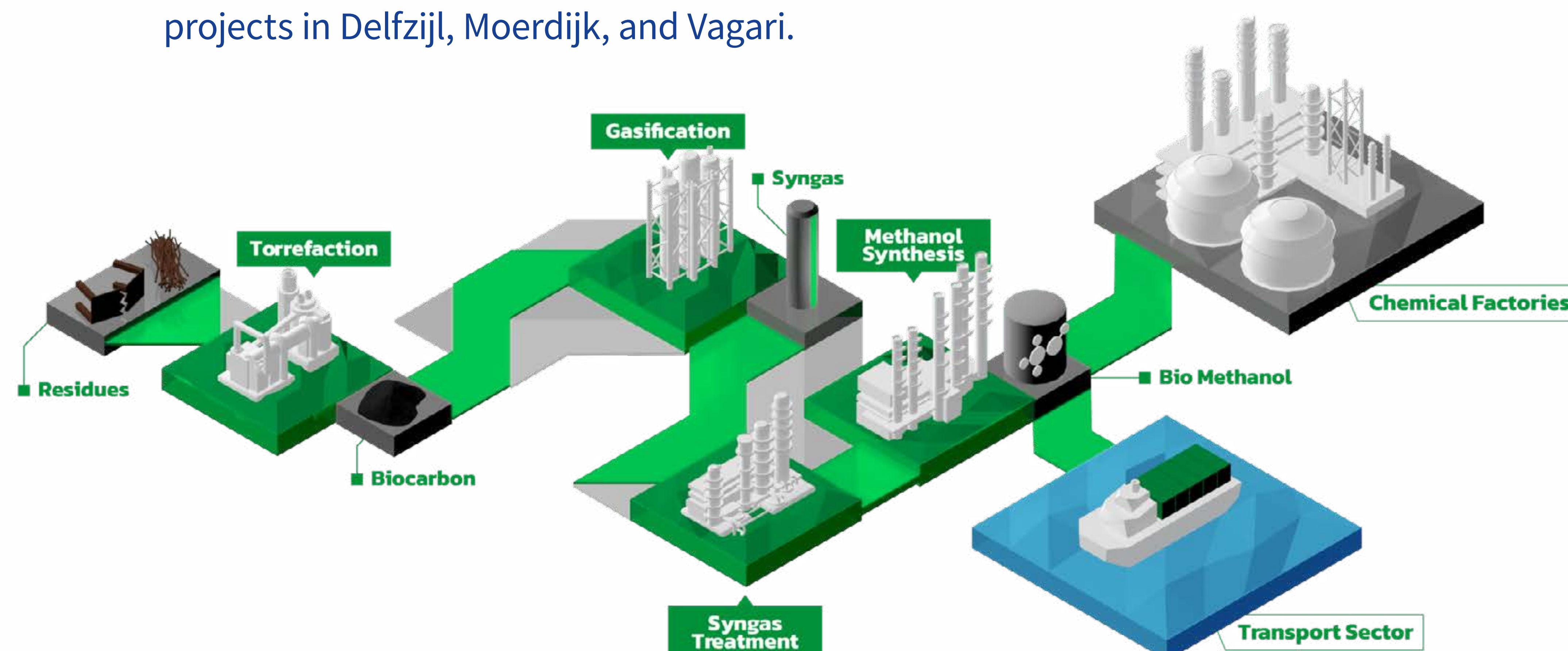
Perpetual Next converts low-value organic waste streams into high-quality, raw materials and fuels, known as biocommodities.

We offer

Over years of research and operational experience, we've identified significant advantages of using biocarbon over raw biomass in gasification. By tailoring the properties of biocarbon to closely replicate those of fossil coal, we've unlocked compatibility with commercially available and widely proven gasification systems, such as entrained flow reactors.

We need

Demand for biomethanol is expected to grow to 650 million tons per annum in 2050. However, the current green methanol production lies around 0.5 million tons per annum. We invite strategic equity investors to partner with Perpetual Next in advancing our Green Methanol projects in Delfzijl, Moerdijk, and Vagari.



IonIQs: the future is water



www.ioniqswater.com
jasper@ioniqswater.com

About the organisation

At IonIQs, we are dedicated to revolutionizing the way industries manage wastewater. Our cutting-edge technology not only ensures efficient water treatment for reuse but also maximizes selective salt recovery, promoting circularity and environmental protection. Founded in 2024.

Solution for

The recovery of reusable process water and Battery Grade Lithium from the Lithium rich wastewater of the Lithium Industry. Reducing waste disposal costs and minimizing the need for fresh water and raw materials.

We offer

- IonIQs supplies an highly autonomously operating container with all technology integrated that processes the waste water stream, delivering reusable water and high purity Lithium back to the refinery, resulting in higher operational yield and reduction in water consumption.
- We sell our technology or get compensated for the recovered Lithium.

We need

- Access to Lithium industry partners
- Investors
- Consortium partners for a subsidy project to scale up our technology



SeaO2

SeaO₂

www.seao2.com
zamin@seao2.com



About the organisation

SeaO is a Dutch Ocean Carbon Removal company developing a technology to remove CO₂ from the atmosphere at gigaton-scale, harnessing the potential of the oceans. SeaO2's solution, Direct Ocean Capture, relies solely on renewable electricity and seawater to extract CO₂ from the ocean's surface and consequently from the atmosphere in a scalable and cost-effective way. The process uses electrochemistry and vacuum to transform the existing dissolved inorganic carbon in water into gaseous CO₂, which is extracted and stored permanently or utilised into products with third-party providers. Founded in 2021.

We offer

- Compact plug-and-play design allows for retrofitting into existing marine infrastructure and minimal land use
- No need for feedstock or by-products generation
- Fully electrical and heat-free, can operate intermittently, leveraging the cleanest and most cost-effective energy sources while serving for grid-balancing
- No new substances introduced into the ocean environment
- Produces a directly measurable stream of CO₂ aiding with Monitoring, Reporting and Verification (MRV)

We need

- Investors
- Carbon Credit Buyers
- Carbon Utilization Buyers
- Industrial partnerships
- Academic partnerships
- Research grants & funding options
- Talent

