

# Netherlands trade mission to Japan

15 - 17 March 2023



Netherlands

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# Foreword



**Liesje  
Schreinemacher**  
Minister for Foreign Trade  
and Development  
Cooperation

## Achieving a climate-safe future together

The world will not be able to cope with climate change without a global energy transition. The Netherlands does this together with its partners worldwide. It is therefore a privilege to lead this mission to Japan.

I am proud to be joined by a business delegation from the Netherlands comprising representatives of over 30 companies and organisations with expertise in the energy transition, ranging from offshore wind, battery technology, hydrogen to horticulture. In this mission booklet you can find an overview of all Dutch companies who will participate in the mission.

The Netherlands attaches great importance to good economic relations with Japan, one of our most important trade partners in Asia. Our bonds are historic and our bilateral trade volume is vast. Japan is a technologically advanced economy with many opportunities for collaboration in trade and innovation.

The Netherlands strives to be an international partner for sustainable solutions to meet global challenges, like the energy transition and climate change. We believe cooperation between Japan and the Netherlands can create solutions and shared opportunities to safeguard our future and our welfare. By working together, we can also support the transition towards a carbon-neutral society by 2050.

The trade fair World Smart Energy Week (WSEW), offers participants the opportunity to expand their network in the country in the field of renewable energy. For participants who are new to this markets, the mission provides an excellent introduction to Japan and potential new business leads.

Ms. Ingrid Thijssen, chairwoman of VNO-NCW (Confederation of the Netherlands Industry and Employers ) is leading the business delegation, which will open doors and boost trade and investment for Dutch businesses in Japan.

I am confident that this economic mission will unlock new opportunities and promote sustainable commercial relationships, thereby strengthening the close ties between Japan and the Netherlands.

I wish all the participants a successful mission and look forward to meeting you in Japan, to design a renewable future together.

**Liesje Schreinemacher**

*Minister for Foreign Trade and Development Cooperation*

## Foreword



### **Ingrid Thijssen**

President of the  
Confederation of  
Netherlands Industry and  
Employers VNO-NCW

It's exciting to lead a large-scale Dutch economic mission to Japan. Together with companies from the hydrogen sector and companies specialized in wind energy at sea, we will visit Tokyo in the presence of our Minister for Trade and Development Cooperation, H.E. Ms. Schreinemacher.

Japan is the third-largest economy in the world and has - just like the Netherlands - a strong worldwide export position. The strong bilateral trade relationship between the two nations accounts for more than 12 billion euro and that makes Japan a very important trading partner.

During this economic mission it is our top priority to seek new opportunities and expand existing collaborations between our businesses and learn and share each other's expertise and ambition. Japan offers a full range of business opportunities, especially on sustainable energy solutions like hydrogen and wind energy. Important areas in which Dutch businesses are worldwide renowned for their expertise. During seminars, meetings, company visits and, networking events, companies from Japan and the Netherlands will find new windows of opportunity to strengthen the valuable bilateral trade relationship further.

The Netherlands can learn a lot from Japan's 'whole of government' approach; within which the Japanese innovation-, industry- and export policy are strategic

coordinated and in this way the international earning power is optimized. Also, we look forward experiencing the foundation of the Osaka EXPO 2025. We are delighted to participate with a Dutch pavilion in Osaka.

We are committed to bring our long and good relationship with Japan to the next level. I look forward to meeting all of you and if you have any questions, requests, or otherwise, please do not hesitate to contact me during our stay in Japan. I wish you all an inspiring and successful mission.

**Ingrid Thijssen**

*President of the Confederation of Netherlands Industry and Employers VNO-NCW*



## Map of the Netherlands

### Locations

- |  |                |
|--|----------------|
| 1. Amsterdam<br>(and Airport Schiphol) | 9. Haarlem     |
| 2. Arnhem                              | 10. The Hague  |
| 3. Assen                               | 11. Leeuwarden |
| 4. Breda                               | 12. Lelystad   |
| 5. 's Hertogenbosch                    | 13. Maastricht |
| 6. Eindhoven                           | 14. Middelburg |
| 7. Enschede                            | 15. Rotterdam  |
| 8. Groningen                           | 16. Utrecht    |
|  | 17. Zwolle     |





# Introducing the Netherlands

## How do the Dutch make a difference?

Through their interactive approach to finding innovative solutions to the big challenges facing the world today. The Dutch way of thinking and working has been shaped by centuries of living in the low-lying delta of the Netherlands. Through the ages, the Dutch have joined forces to find ingenious ways to tackle challenges like water, urbanisation, energy, food, health and security. By being inventive, pragmatic and open to new challenges, the Dutch have created a flourishing and resilient land.

The Netherlands is a constantly evolving ecosystem of cities, industry, agriculture and nature, all integrated through smart infrastructure. It is a source of knowledge and experience that the Dutch are keen to share with others. Learning from the past to create a better future. Together, seeking sustainable solutions for the most liveable world.



## Worldwide ranking

# 1st

At WEF's ranking of most competitive economies in Europe. 4th in the world. (WEF, 2019)

Production and auctioning of cut flowers and flower bulbs

World's largest flower exporter

# 2nd

Largest exporter of agricultural products in the world (WTO, 2019)

# 5th

Greatest place to live (World Happiness Report, 2022)

# 6th

Best at Global Innovation Index (GII, 2021)

# 7th

Largest exporter of goods in the world (CIA World Factbook, 2020)

Largest foreign investor in the world (1,256 billion US dollars)

Largest recipient of foreign investment in the world (801 billion US dollars)

# 8th

Largest importer of goods in the world (507 billion US dollars)

## Facts & Figures

Official name:  
Kingdom of the  
Netherlands

Capital:  
Amsterdam

Seat of government:  
The Hague

Form of government:  
Parliamentary  
democracy (cabinet  
of Prime Minister  
and Ministers) within  
a constitutional  
monarchy

Head of State:  
His Majesty King  
Willem-Alexander,  
King of the  
Netherlands, Prince  
of Orange-Nassau

Location:  
Western Europe,  
bordering Germany,  
Belgium and the  
North Sea

Administrative structure:  
The kingdom consists of four entities.  
The Netherlands and three territories in the  
Caribbean: Aruba and Curaçao and St. Maarten

Special municipalities:  
The overseas islands of Bonaire, Saba and  
St. Eustatius, all three of which are situated in the  
Caribbean

Surface area:  
**41,545 km<sup>2</sup>**

Number of inhabitants (2022):  
**17,564,623**

Monetary Unit:  
**Euro**

Languages:  
Dutch, Frisian and on the  
overseas islands also  
English and Papiaments

GDP per capita  
(World Bank, 2021):  
**58,061** US dollars

Number of provinces:  
**12**

Number of inhabitants  
per km<sup>2</sup> (2022):  
**423**

Unemployment rate  
(CBS, 2022):  
**3.3%**

English speaking Dutch  
people:  
**90%**

# Japan and the Netherlands

## Accelerating the energy transition together

Today, the world faces an energy challenge unlike any other. Over the next twenty years, we will consume nearly 36% more energy than we do now. With fossil fuels no longer a long-term option for the well-being of our people and planet, the demand for renewable energy is at the forefront of our priorities.

Together with our partners in Japan, we are on a mission: to build partnerships and pave the way for a more sustainable future. While Japan still relies heavily on fossil fuels, the country is ready to take the leap and move towards greener energy and technologies. From 15 to 17 March 2023, we will be joining forces to exchange knowledge and new business opportunities to not only make more sustainable choices but grow our economies while we do so.





### Centuries of learning together

The Japanese and the Dutch have an extended history of collaboration, dating back to the early 1600s. And collaboration between the two countries is continuing to grow. Both the Netherlands and Japan aim to become more climate-neutral in the coming years. Through innovative cooperation, both countries can strengthen each other in the developments of hydrogen and offshore wind solutions for energy efficiency. Renewable energy will also be important focus areas for the Netherlands during the World Expo 2025 Osaka.

### Join us in unlocking renewable energy together

We invite everyone working in, or researching, renewable energy to join us in stimulating innovation for a more sustainable future. The Netherlands and Japan are ready to pave the way and change the world for the better, together. Let's accelerate sustainable energy together!

# Company profiles

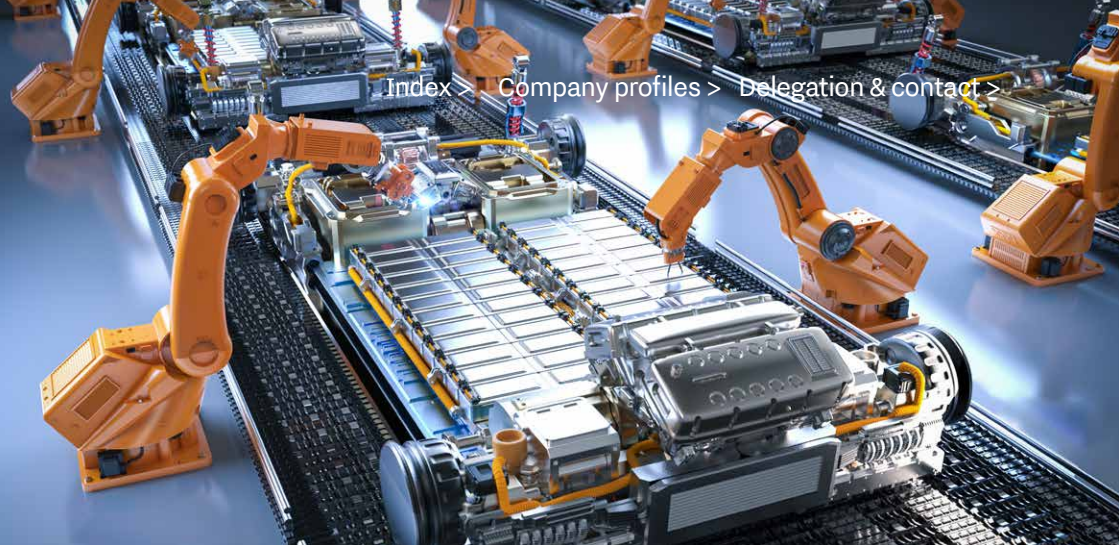
Battery Technology

Greenhouse Horticulture

Hydrogen

Offshore Wind

Partner



## Battery technology

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## **DSPA**

DSPA is a Netherlands based manufacturer of advanced and innovative aerosol fire extinguishing systems and suppression units. Due to their unique characteristics, aerosol fire suppression systems are exceptionally effective, safe and environmentally friendly. With distributors in over 60 countries worldwide, DSPA is one of the major players in the field.

DSPA.nl Aerosol Fire Suppression Systems are used in the industry-, offshore-, government-, transport-, healthcare-, energy-, telecommunication and aviation sectors. Firefighters and first responders worldwide have extended their set of firefighting tools with the DSPA-5. A portable fire suppression tool that can be applied wherever one needs to act quickly.

The fire safety industry has long been dominated by unsustainable solutions, with increasing pressure on PFAS, so called 'forever chemicals', DSPA aerosol fire suppression systems have proven themselves to be a very sustainable alternative. Listed by the Environmental Protection Agency under their Significant New Alternatives Program (SNAP), the aerosol has no effect on Ozone Depletion nor Global Warming.

DSPA has a proven track record in protecting key assets in the renewable energy industry such as wind turbines, offshore substations and battery storages. We would like to meet with distributors both in Korea and Japan familiar with fire suppression systems and battery suppliers/manufacturers.





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## ElaadNL

ElaadNL researches and tests the smart and sustainable charging of electric vehicles. Owned by the Dutch gridoperators, ElaadNL is their knowledge and innovation centre in the field of (smart) charging infrastructure in the Netherlands.

ElaadNL coordinates the connections of public charging stations to the electricity grid and has been working from the beginning to adapt the grid connection demands to make these more fitting to charge points. Innovative solutions are explored that will generate great benefits for society. Optimal use can be made of the existing grid by 'smart charging', requiring fewer expensive investments of the electricity grid. ElaadNL also enables market parties to benefit from the potential flexibility that an EV can provide to match the demand from EVs from the intermittent (non-controllable) sustainable supply/generation.

In the recently opened, state-of-the-art Testlab in Arnhem, new models and innovations in the field of charging electric vehicles are tested and the interaction with the underlying power grid is researched. Producers of electric cars, buses, trucks and other forms of electric mobility and of all matching charging infrastructure and ICT communication services are welcome in the open test lab. This improves products and services to enable a smooth transition to smart and sustainable charging of electric vehicles.

Apart from testing, ElaadNL is involved in many 'practical' deployments such as bi-directional charging (V2G), cyber security and interoperability of charging. ElaadNL developed the de-facto global standard for connecting different charge stations, the Open Charge Point Protocol (OCPP).

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## Esdec Solar Group

Esdec Solar Group is a leading developer and distributor of professional rooftop solar racking and mounting systems and solutions for both residential and commercial roofs. Developed for installers, by installers, its in-house R&D team has simplified installations with some of the fastest, most economical solutions on the market. Production is outsourced to third parties, after which the systems are assembled and distributed to wholesalers, EPC contractors, solar integrators or installers directly.



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## LeydenJar



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**Ashley Cooke**

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Modern society needs electric vehicles with longer driving ranges and shorter charging times, smartphones, power tools, and wearables with increased functionality and exceptional battery life, and new and improved technologies to tackle climate change.

LeydenJar Technologies holds the key to this energy-fueled future by enabling the world's most powerful batteries with innovative silicon anodes. With incredibly high energy density, lightning-fast charging, and a low environmental footprint, LeydenJar's anodes are truly indispensable. The secret lies in ultra-thin, pure silicon battery anodes that enable a lower CO2 footprint with significant cost savings.

Imagine a world where all vehicles are electric and can be charged to full capacity in less than 10 minutes. A world where electric airplanes replace those that run on fuel, and smartphone technologies increase exponentially. This is the world that LeydenJar has been envisioning since its' founding in 2016.

LeydenJar has raised €70M in venture capital and employs over 70 of the world's brightest scientists, engineers, and innovators.



### LeydenJar

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## NXP Semiconductors

NXP Semiconductors is a NASDAQ-listed (NXPI), S&P 500, Dutch semiconductor company with its head quarters in Eindhoven, The Netherlands.

NXP Semiconductors enables secure connections for a smarter world, advancing solutions that make lives easier, better and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the automotive, industrial & IoT, mobile, and communication infrastructure markets.

As global leader in semiconductors for automotive, NXP Semiconductors enables the key trends in automotive: electrification, driver support systems, connected infotainment and shared mobility.

Built on 70 years of combined experience and expertise, NXP has approximately 34,000 employees in more than 30 countries and posted a revenue of \$13.2 billion in 2022.

### NXP Semiconductors Netherlands

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## Pal-V International

PAL-V makes air mobility part of everyday life by creating innovative and sustainable air mobility products. The PAL-V Liberty will be the first certified flying car to enter the market. By combining flying and driving in one vehicle, the PAL-V Liberty allows its operator to FlyDrive from any door to any door in the world without having to change vehicles. Unlike Urban Air Mobility vehicles, the PAL-V Liberty can make use of existing infrastructure and regulations. The PAL-V Liberty allows private and professional users to save valuable time, increase efficiency, and increase the flexibility of their operation.

PAL-V International is also researching the use of zero emission fuel for fly-drive mobility in the future.

### Pal-V International

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### **TNO - Unit Mobility & Built Environment**

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## **TNO - Unit Mobility & Built Environment**

TNO connects people and knowledge to create innovations. This is how we strengthen the competitiveness of companies and the welfare of society in a sustainable way. As an independent research organization, we are the driving force behind innovation. We make knowledge serve the common good.

Our focus is on contributing to solutions for 4 societal challenges:

- safe and secure society
- healthy society
- sustainable society
- digital society

We link these four societal challenges to strengthening the earning power of the Dutch economy. We also have and maintain an excellent knowledge base for all our work, especially the national advisory function and statutory duties.

In order to maximize our contribution to the societal challenges, we focus our research and innovation on:

- developing system solutions
- creating innovation ecosystems
- achieving technological breakthroughs
- dynamic innovation

UNIVERSITY OF TWENTE.



### Sebastian Husein

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## University of Twente

The University of Twente in the Netherlands houses the world class NanoLab facilities of MESA+ ([utwente.nl/mesaplus](https://www.utwente.nl/mesaplus)), a leading nanotechnology research institute. These resources and many more are leveraged for cutting-edge, commercially-relevant research in batteries and hydrogen, seeking to produce key solutions to societal challenges in the energy transition.

### Unique battery expertise and facilities:

- “Factories of the future” smart manufacturing solutions: innovative planning and operation of systems and factories; data acquisition strategies coupled with machine learning
- Digital twins for factory simulation; decision support, control
- Pilot lines for packs and modules
- Advanced cell chemistries, including beyond Li and micro battery concepts
- Power electronics for safety, battery management systems, and (grid-level, smart) system integrations

### Unique hydrogen expertise:

- Facilities and expertise for rapid material screening—material systems simultaneously enabling higher activity and greater chemical stability
- Novel anode materials for water oxidation, OER alternatives (AEM electrolyzers)
- Electrocatalysis: OER, alternative anode reactions, and electrochemical nitrogen fixation
- Ion transport phenomena near interfaces, both electrodes and (ion selective) membranes

For battery and hydrogen contexts, the UT has demonstrations and widespread expertise for modelling and autonomous decision making + systems steering, in systems with multiple energy carriers. In particular, for electric mobility (with grid integration), and industrial settings.



### University of Twente

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## Greenhouse horticulture

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## IF Technology

IF Technology is an engineering and consultant company that aims at developing solutions for energy-related problems with the ultimate purpose to bring clean and sustainable energy solutions to society. IF Technology is a company that has expertise specialized in the development, implementation and monitoring of systems with shallow (ATES & BTES) and deep geothermal energy, aquathermal energy and large scale heat storage. This ranges from advice on policy and legal issues related to energy, feasibility studies, hydrogeological and geological research, design and implementation as well as exploitation.

### Relevant fields of expertise:

Geology, geophysics, petro-physics, geochemistry, reservoir modelling and engineering, well bore modelling and well trajectory design, well stimulation, energy system analysis and heat production design, software development for subsurface energy systems, monitoring of well and system performance.

With our 80 experts, we work for project developers, authorities, consultants and end-users/owners of greenhouses, offices, shopping malls, production facilities and other large buildings.

In the last 34 years, we have supported the realisation of over 3,000 ATES systems. This experience is what we like to share with our international contacts in order to support you with the development of ATES and aquathermal energy in your country.

### IF Technology... Creating Energy

#### IF Technology

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Witteveen+Bos is a globally renowned engineering and consultancy firm, offering expert solutions to today's complex challenges. With over 70 years of experience and a network of 22 offices in 10 countries, our team of 1,400 engineers and consultants work to improve the human environment for present and future generations. We strive for social, ecological, and economic progress, guided by the sustainable development goals of the United Nations.



### Saleh Mohammadi

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As one of the leading parties in the Netherlands, Witteveen+Bos specializes in the design and engineering of Aquifer Thermal Energy Storage (ATES) and Aquathermal energy systems. Our integrated, optimized, and robust energy solutions, including ATES for seasonal heat and cold storage, range from building-level to city district-wide applications. Our services include Soil Energy Planning, Feasibility Studies, Geological and Geohydrological Modelling, Conceptual and Detailed Design & Engineering, Optimization of ATES and regional heat & cold sources, and System Monitoring and Optimization.

At Witteveen+Bos, we've left our mark on landmark projects like Busan Smart City and Floriade 2022 with our expertly designed and engineered ATES and Aquathermal energy systems. Let us bring our ATES and Aquathermal energy knowledge to your next venture.



**Witteveen+Bos**  
**Raadgevende ingenieurs**

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## Demaco



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Demaco is an expert in the field of cryogenic technology. We build infrastructures to facilitate the transport and application of industrial gases at extremely low temperatures.

Liquid hydrogen is in the spotlight as a versatile, clean, and safe energy carrier that is used, among other things, as a fuel in fuel cells and as a feedstock in the industrial sector. To safely transport and use liquid hydrogen, sophisticated cryogenic infrastructures are required.

Our team of cryogenic experts delivers complete turn-key solutions worldwide for a wide variety of cryogenic hydrogen projects. We take full ownership from the initial concept to the commissioning of the application. With infinite knowledge and experience, our team supports the implementation of liquid hydrogen in various sectors and is ready to significantly accelerate the sustainable energy transition.

We advise, design, develop, manufacture, test, and install customer-specific hydrogen solutions. Infrastructures with loading bays, or loading arms and vacuum insulated transfer lines with the proper couplings; our team delivers high quality projects.

Building on >35 years of experience and a huge passion for our profession, Demaco has all the required knowledge to make the most advanced hydrogen projects successful.

It's all about Cryogenius.



**Demaco**

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## Duiker Combustion Engineers

A company whose mission is contributing to Sustainable and affordable energy for everybody

Duiker Combustion Engineers is an engineering company having its roots as supplier of combustion and process solutions for the fossil fuel sector. Over decades it developed a vast experience in design, supply and after sales support of the related process equipment, accepted and preferred by renown gas treating technology providers.

Driven by the conviction to provide sustainable and affordable energy for everybody, the company is steadily moving towards development and supply of scalable solutions and processing units comprising technologies for renewable energy, notably where ammonia is used as an energy carrier.

With its experience in ammonia-burning applications in refineries and process solutions, Duiker has developed a suite of efficient, robust and clean technologies:

- Reliable conversion of ammonia to power - renewable ammonia combustion for high-temperature utility- and industrial applications
- Reliable conversion of ammonia to high-purity hydrogen by large scale cracking of renewable ammonia to hydrogen ('ammonia cracking')

Duiker's clean energy technologies are ready to be applied today and targeted at large-scale, industrial environments, focused on reducing and eventually eliminating fossil fuels in the energy supply chain.

**Duiker is your innovative partner for long-term solutions**



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## FUJIFILM Europe



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FUJIFILM Europe is the European holding and operational business center for Fujifilm in Europe. Together with the sales headquarters in Ratingen (Düsseldorf) and the Shared Service Center in Gdansk it forms the Headquarters for FUJIFILM in Europe. On the same location in Tilburg is our biggest production site: FUJIFILM Manufacturing Europe.

FUJIFILM in Europe is active in Imaging (photo paper, cameras, lenses), Graphics (printing plates, IJ paper and machines, inks), Medical (diagnostic equipment (X-Ray, MRI, CMRT, endoscopes, biomedical products), Industrial Products (membranes, X-Ray machines) and New Business (a.o. Green Hydrogen).

Fujifilm has developed membranes for gas separation applications and several electro separation technologies, which can be used in different Green Hydrogen and battery applications.

The company slogan is “Value from Innovation”.

### FUJIFILM Europe

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[www.fujifilm.com/ef/en/about/innovation/membrane](http://www.fujifilm.com/ef/en/about/innovation/membrane)



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## Groningen Seaports

Groningen Seaports is the administrator, commercial operator and developer of the Port of Delfzijl and the Eemshaven and adjacent industrial estates. Groningen Seaports provides the complete port services, the complete port services, the complete port services, the maintenance and the development of the sites in both port areas.

Groningen Seaports creates responsible and sustainable clusters and partnerships on the propositions ‘circular’, ‘biobased chemistry’ and ‘energy (related)’, in order to manage this for (future) customers and other results, to create value and liveability within its area of realization in North Netherlands.



### Groningen Seaports

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## Howden Thomassen Compressors

Howden Thomassen Compressors is a specialist supplier of tailor-made gas compression equipment to various industries. Our products have made a valuable difference for our clients all over the globe for the past 100 years.

Both our diaphragm and reciprocating piston compressor technologies are proving vital in all gas processing including hydrogen in the mobility, industry and energy sectors through the respective production, transmission and distribution phases where safety remains paramount. As the inventors of the diaphragm technology, we have been at the leading edge of diaphragm compressor innovation for almost a century, constantly improving safety and performance.

We provide full lifecycle solutions delivered by a global network of dedicated compressor service centers, and we are able to get skilled service engineers onto your site to make sure that your machines are maintained correctly. Our service level agreements and digital solutions ensure we provide a tailored maintenance and proactive support model to improve the performance of our compression equipment, resulting in highest reliability and availability and lowest operating costs.



### Howden Thomassen Compressors

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# New Energy Coalition

## Sectorleader Hydrogen



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## New Energy Coalition

New Energy Coalition is a continuously growing network of knowledge institutions, businesses, government bodies and ngo's working together to accelerate the energy transition for a sustainable future with a strong focus and track record on hydrogen.

New Energy Coalition acts as a go-between in the hydrogen world: we bring parties into contact with each other. But that doesn't simply mean giving out phone numbers. We make sure that there is a real connection, that parties get to know each other and really start working together. By doing so, we really help the hydrogen economy in the region and beyond, and therefore the energy transition, to make progress.

New Energy Coalition is the architect and coordinator of Europe's first Hydrogen Valley: HEAVENN



## New Energy Coalition

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## **NOM**

The NOM is one of eight Regional Development agencies in the Netherlands. Our objective is to stimulate the economy and employment in the Northern Netherlands by investing in promising companies, attracting new companies, sharing knowledge and experience with entrepreneurs and by making our large network available to anyone who can benefit from it.

### **Foreign Direct Investment / International**

The NOM's dedicated Foreign Direct Investment team is focused on attracting international companies to establish in the Northern Netherlands. We assist you during every stage of the process in (re)locating your business. We will provide you with all the information and services your business needs to make the most of our advantageous location. Once you are settled, our Investor Relations program ensures that we keep supporting you and help you flourish in the region.

## **NOM**

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## OCI



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OCI is a leading global producer and distributor of hydrogen-based products providing low carbon fertilizers, fuels, and feedstock to agricultural, transportation, and industrial customers around the world. We currently have production assets in the EU, US and MENA-region, and a global distribution and logistics network.

### Products

- Green, Bio, Blue Ammonia
- Bio-methanol, e-methanol, circular methanol



**Jong Chen Foo**

Global Head of Ammonia

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### USP's: We are...

- one of the largest ISCC+ and ISCC-EU certified low carbon and renewable ammonia and methanol producers globally meeting market Carbon Intensity and sustainability requirements;
- constructing the first world-scale blue ammonia plant in the US
- one of the first to deploy a 15MW electrolyser at our ammonia and hydrogen production facilities in Egypt based on renewable electricity;
- the largest exporter globally of seaborne merchant ammonia and urea;
- strategically located on the busiest shipping lanes in the world, soon also in Singapore.



**Alexander Döll**

Global Group Director

Government & Public Affairs

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We have shipped low carbon ammonia to Japan and Korea; other potential low carbon ammonia and bunkering possibilities are currently investigated.

### OCI

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We want to engage with companies active in power generation, energy, marine and transportation fuels, and energy intensive manufacturing industries. Particularly those who are developing technology for using low carbon feedstock or fuel, and sourcing alternative, low-carbon feedstock to meet their sustainability goals.

Paqell.

## Paqell



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Paqell is a Dutch joint venture of Shell and Paques established in 2011 to continue the Shell/Paques partnership existing since 1995 on biological desulphurisation in the petrochemical sector. Paqell uses the sustainable biological THIOPAQ O&G process, which removes H<sub>2</sub>S from gas streams and recovers it as elemental sulphur preventing SO<sub>2</sub> emissions to air. The sustainable technology has worldwide references. Paqell works with Authorized Licensors and EPC contractors which need to purify sour gas streams on behalf of end-customers. The sulfur end product of Paqell's biological H<sub>2</sub>S removal can be used as a raw material for fertilizers and fungicides.

More recently Paqell has developed technologies based on bio-electrochemical systems (BES) to neutralize pollutants in gasses to reduce greenhouse emissions. At the moment Paqell is able to convert thiols, ammonia and CO<sub>2</sub> by using BES systems. It is also possible to create hydrogen in the BES process. All Paqell processes make use of biotechnology which is based on naturally occurring bacteria.

Paqell would like to meet companies in South Korea and Japan which can assist Paqell with the EPC and manufacturing or can act as licensee of Paqell's installations as well as companies who can act as a partner in Paqell's search to optimize the bio-electrochemical systems.

### Paqell

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## Port of Rotterdam Authority



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The aim of the Port of Rotterdam Authority is to strengthen the competitive position of the port of Rotterdam as a logistics hub and world-class industrial complex in terms of both size and quality. We are working on a future-proof port where businesses can flourish and which has the least possible impact on climate and nature.

The Port Authority's core tasks are the sustainable development, management and operation of the port and maintaining the smooth and safe handling of shipping. Besides our traditional 'landlord' role, we are looking to optimise processes in the supply chain as well as focus on digital infrastructure. We not only want to be the most efficient logistics hub for our direct customers, we also want to serve supply chains as (cost) efficiently and sustainably as possible.

A very important part of this approach is getting to know and understand the shippers and forwarders that ship to and from Europe. Key here is sharing thoughts on industry developments, port choice criteria and other supply chain bottlenecks and needs, to help us tackle these issues and boost supply chain efficiency. Our focus is therefore fully on shippers and forwarders in different geographical areas.

### Port of Rotterdam Authority

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## Prodrive Technologies



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Founded in 1993, Prodrive Technologies designs and manufactures high-tech electronics, software, and mechatronic products and systems. We operate four dedicated R&D programs and three highly automated manufacturing sites as well as sales offices around the world.

Headquartered in the Netherlands, we employ 2900+ people in 6 countries with 20% CAGR over the past 20 years. As a privately-owned company, we aim to provide more than just shareholder satisfaction. We operate under a healthy ambition to be of relevance and contribute to meaningful innovation that tackles major challenges in our society. We create technologies that are essential links in the systems which form the basis for today's and tomorrow's world. Our converter and inverter technology focus on both green hydrogen production and utilization which can be easily integrated and scaled up to fit individual project needs.



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## SoluForce



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SoluForce is the originator and technological leader in long length high pressure Reinforced Thermoplastic Pipe systems (RTP, also known as Flexible Composite Pipes or FCP). They are used for many applications, such as hydrocarbons, hydrogen, water, offshore and mining. It is completely flexible, meaning it can go round corners, up hills, down slopes, across gullies, under water and more with ease. Being non-metallic, it is also fully corrosion-free, does not suffer from hydrogen embrittlement and is quick and simple to install.

### Unique in the world of hydrogen transport

Based on proven technologies, it can be the perfect accelerator to achieve local green hydrogen distribution in a fast, flexible and cost-efficient manner. Moreover, the CO2 footprint of producing, installing and using the SoluForce pipe is only a fraction of that of a traditional steel pipe, which is an important aspect in an ambition towards a Co2 neutral industry.

The SoluForce RTP system has been certified for hydrogen applications up to 52 bar of operating pressure. Unique in the world of hydrogen transport and a global first. This significant milestone has a major impact on the feasibility of hydrogen projects, and is a new step towards a sustainable energy mix.



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# Strohm ))



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## Strohm

Leading composite pipe technology company Strohm has the world's largest track-record for Thermoplastic Composite Pipe (TCP) after being the first to bring the technology to the conventional energy industry in 2007. TCP reduces total installed and life cycle cost for subsea flowlines, jumpers and risers and has proven to reduce the CO<sub>2</sub> footprint of pipeline infrastructures by more than 50%. TCP is the superior pipe technology for the transport of hydrogen, CO<sub>2</sub> and a variety of other fluids.

The company is committed to driving sustainability with its range of TCP solutions which enable clients towards their net-zero carbon emissions targets and supports the renewables sector.

TCP is a strong, non-corrosive, spoolable, lightweight technology which is delivered in long lengths, resulting in a significant reduction of transportation and installation costs. TCP is installed using small vessels or subsea pallets, significantly reducing CO<sub>2</sub> emissions. It is also 100% recyclable.

Strohm's shareholders are ING Corporate Investments, HydrogenOne Capital Growth plc, Shell Ventures, Chevron Technology Ventures, Evonik Venture Capital, Saudi Aramco Energy Ventures, Subsea 7, Aker Solutions, Sumitomo Corporation and the private equity investor, HPE Growth.

The firm's manufacturing facility is located at its headquarters in IJmuiden in The Netherlands. Strohm also has offices in Houston (US), Rio de Janeiro (Brazil) and Kuala Lumpur (Malaysia).

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## Offshore wind

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## **Ampelmann Operations**

Ampelmann designs and delivers innovative, safe, reliable and efficient transfer solutions to the offshore energy industries globally. With a track record of more than 8.6 million safe people transfers, over 25 million kg cargo transfers and 540 projects worldwide, Ampelmann operates in Europe, Africa, Asia Pacific, the Americas and the Middle East.

Ampelmann currently maintains a fleet of 68 operational systems used for transferring crews and cargo to offshore structures. Its solutions are tailored to the needs of different market segments, sea states, cargo and crew loads, and are used by the key players in the global industry.

### **DOB-Academy**

DOB-Academy is a training institute for offshore energy professionals in industry and government. Founded in 2014, DOB-Academy delivers courses on offshore wind, wider offshore energy and Hydrogen.

Headquartered in Delft, The Netherlands, it caters to the European market from its monumental Library building. Furthermore, DOB-Academy has been active in Japan for over 5 years. Since 2021 DOB-Academy is knowledge partner in a large hydrogen project in Canada.

The energy transition requires a transition in skills. Let DOB-Academy assist you to make the transition through Empowering Engineering Excellence.



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## Fugro

Fugro is the world's leading Geo-data specialist. We contribute to a safe and liveable world by delivering solutions in support of the energy transition, sustainable infrastructure and climate change adaptation.

Fugro, an abbreviation of the Dutch words for foundation and ground mechanics, was founded in 1962. Over the past sixty years, we have developed a deep understanding of Earth's surface, subsurface and natural environment. We provide site characterisation solutions to facilitate the safe, sustainable and cost-effective design and construction of buildings, industrial facilities and infrastructure. In addition, to optimise reliability, utilisation and longevity, we provide asset integrity solutions during the construction and operational phases of the asset life cycle.

Employing approximately 10,000 talented people in 59 countries, Fugro works both on land and in marine environments. With our team of dedicated experts, specialised assets and cutting-edge digital technologies, we offer our services to a broad spectrum of clients, predominantly in energy, infrastructure and water markets. In 2021, 61% of our revenue was generated in wind, infra and water.



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## IX Wind



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IX Wind, part of the IX Renewables group, is an international consultancy and EPC-Management company with over 15 years of experience in the renewable energy sector. Since 2012 the company has been active in Japan, and in Taiwan, contributing to the successful completion of the country's first offshore wind project.

As owner's and bank's engineer IX can take responsibility for all major packages, carry out the contract management, risk assessment, financial modelling, and O&M strategies.



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As techno-economic advisor and consulting engineer, IX ensures the client's capability to make well-informed decisions, for example, through its technical due diligence and procurement services.

With offices in the Netherlands, Taiwan and Japan, IX serves clients in Northwestern Europe and Asia.



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## League-geophysics

Our clients are companies that are involved in anchoring and piling constructions as well as cable laying operations. We are specialised in assisting our clients on how to acquire and maintain the best data sets in the fields of: geophysics, geotechnics, hydrographical and metoceanic. Results can be booked in presenting i.e. the most suitable locations for foundations and the smartest and safest cable trajectories.

We work closely with our clients, providing feedback for each development phase on the criteria for survey campaigns, equipment settings and required deliverables. Once a survey campaign is under way, we can monitor progress and data quality. We check delivered data sets and reports, assisting our clients in getting the most out of their survey data.

We will integrate this data in products of high-end data processing, such as the creation of ground models and route planning.

In collaboration with our partners we can offer desk studies and documentation on the topics of geology, archaeology and UnExploded Ordnance (UXO) risk.

We consult our clients at every step of the work, from planning to survey, EIA reporting, route planning, asset installation and monitoring.

We are interested in developing long-term, highly valued partnerships in realizing offshore renewable energy.



**Sectorleader**  
**Offshore wind**



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## Holland Home of Wind Energy

HHWE is the independent export association for Dutch wind power companies. HHWE represents, supports and unites its members in exploring emerging wind markets across the globe. With an active, result driven strategy and a strong focus on cooperation, innovation and sharing knowledge & networks, HHWE is your committed partner in the wind export.

### Joining forces in exploring emerging markets

With networking events, market intelligence, and an extensive export agenda, HHWE actively supports and facilitates its members in establishing partnerships on emerging wind energy markets like Japan, Korea, Taiwan, U.S.A., Ireland and France.

Our wide range of activities include organizing NL Netherlands Lounges at international wind fairs. We also support incoming and outbound wind power trade missions. While sharing knowledge, experience, and networks, we are strengthening each other: together we can truly advance in the world of wind!

**Holland Home of Wind**  
**Energy**

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## SARU TEC



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SARU TEC is a small Dutch consultancy company based in Amsterdam region having its focus on business development between companies in The Netherlands and in Japan.

SARU TEC operates in the field of pre-contact phase and tender management for projects in: Civil Engineering, Construction, Offshore Wind Energy, Renewable Energy and Green Hydrogen Plants.

SARU TEC is involved in developments of various Green Hydrogen projects in The Netherlands. Collaboration with Japanese partners could potentially enhance this business development.



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SARU TEC is the representative company in Japan for “Heavy Duty Pavements” showing its interest into offshore wind energy market for:

- Harbours Extensions
- Marshalling Yards
- Assembling Yard
- Heavy Duty Lifting
- Heavy Duty Transportation



### SARU TEC

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## SolarDuck

SolarDuck powers the world with clean solar energy. We generate offshore solar energy using state-of-the-art technology. Fully scalable to match specific local requirements worldwide. Offering a sustainable alternative to meet the world's rising demand for energy.



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One of the key markets of interest is the hybrid offshore solar market. Last year SolarDuck announced to have successfully entered the HKW offshore wind farm bid together with our partner RWE. There SolarDuck will install the world's largest hybrid offshore solar farm of 5 MW capacity. In Japan SolarDuck has been active since 2019, which resulted in the first demonstration project with Tokyu Land Corporation in the Tokyo Bay area. SolarDuck is working hard to strengthen its business locally by establishing an entity in 2023.



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## TNO

TNO is the national research institute of the Netherlands, with the Energy & Materials Transition (EMT) unit as one of its main pillars. TNO-EMT is the preferred applied knowledge and research partner of the Dutch government, while working closely with academia and the business community.

TNO-EMT is a leading research institute in Europe and has been at the basis of European applied research cooperation for many years, particularly when it comes to innovation and integration of knowledge and information about the energy transition.

As part of TNO-EMT, the Geological Survey of the Netherlands is the national knowledge center of the subsurface and formal advisor to the government. Other important themes within TNO-EMT are decarbonization of the industry (including hydrogen), renewable electricity (wind and solar), and circularity.

Outside of Europe, TNO-EMT regularly contributes to projects and research focused on these themes having been active in a variety of countries.

## TNO

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## We4Ce

We4Ce is a worldwide leading wind turbine rotor blade specialist, based in the Netherlands with representative offices in China and India.

The core business of We4Ce is rotor blade designs. From aerodynamic and structural designs to a certified technology implementation at our customer's production. The rotor blade portfolio, from on-shore to off-shore in the range 500kW up till 14MW. More than 30,000 rotor blades world-wide has We4Ce technology.

We4Ce is the specialist and technology provider in:

### Blade root connections

Since 2008, we developed a M20, M30, M36 and M42 -size of bushing connection. All bushing sizes are designed and tested according the most recent design standards DNVGL-ST-0376 and IEC61400-5.

The solution:

- a) can also be implemented in third party designs.
  - b) has the typical function to enlarge the blade length.
- Advantage: reduction of the COE.

### Sectional rotor blade

This patented, sectional tip module, blade solution can be designed in third party designs.

Advantages are: less install costs, less maintenance costs, less turbine downtime and higher annual yield. (CAPEX and OPEX).

### FIT and Re-FIT

This patented "Front Infusion Technology" is an environmental friendly, and validated repair method for blade root damages in the field.

Advantage: a clean, validated and approved repair solution.



## Partner

VNO-NCW

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VNO NCW

## VNO-NCW



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The Confederation of Dutch Industry and Employers, known as VNO-NCW, is the largest employers' organisation in the Netherlands. It has 150 branch organisations and more than 400 individual enterprises as affiliate members, representing a total of over 120,000 companies.

It covers practically all sectors of the Dutch economy: industry, commercial services, construction, the retail trade and the health sector; from the smallest firms to the largest corporates. It represents 80% of companies with more than ten employees and 95% of companies with over 100 employees and all companies in the Netherlands employing more than 500 staff.

In cooperation with governments and other social parties, VNO-NCW strives for an inclusive and sustainable Netherlands, where everyone benefits from increasing prosperity. This requires sustainable economic growth and a high quality business and investment environment.

VNO-NCW represents the interests of its members by active ongoing contacts with the government, politicians, public authorities, trade unions and non-governmental bodies. VNO-NCW sits on numerous government advisory and consultative committees in The Netherlands, in Brussels and in international bodies as the International Labour Organisation and, through the BIAC, in the OECD.

# Official delegation & contact details

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Ministry of Economic Affairs and Climate Policy |  
Netherlands Enterprise Agency

Embassy of the Kingdom of the Netherlands in  
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Consulate General of the Kingdom of the  
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# Official delegation

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