

Netherlands trade mission to the Republic of Korea

13 - 16 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 the Republic of Korea.

I am proud to be joined by a business delegation from the Netherlands comprising representatives of over 40 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 the Republic of Korea, one of our most important trade partners in Asia. Our bonds are historic and our bilateral trade volume is vast. The Republic of Korea 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 both countries 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, Interbattery 2023, offers participants the opportunity to expand their network in the Republic of Korea in the field of renewable energy. For participants who are new to this market, the mission provides an excellent introduction to the country 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 the Republic of Korea.

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

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

Liesje Schreinemaker

Minister for Foreign Trade and Development Cooperation

Foreword



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

It is my great pleasure to be head of the business delegation on our trade mission to the Republic of Korea. Both nations share long and strong economic ties and in recent decades we have further developed and strengthened our bilateral economic relations. The visit to the Republic of Korea by our Minister of Trade and Development Cooperation, H.E. Ms. Schreinemacher, provides a great opportunity to present an impressive group of Dutch companies with a strong entrepreneurial and innovative spirit awaiting to support the Korean economy.

The Republic of Korea is the fourth-largest Asian economy and has evolved into a strong, export-oriented market player. Like the Netherlands, Korea is a highly sophisticated and dynamic economy and is one of the most important trade partners of the Netherlands in Asia.

Our visit to Korea provides a full range of economic opportunities to Dutch businesses and knowledge institutes, specifically on energy transition and green technologies. For instance, on the use of hydrogen, new battery technologies for electric vehicles, and innovative greenhouse horticulture. Important areas in which many of you – Dutch entrepreneurs – are worldwide renowned for your expertise. So, during all the seminars, meetings, company visits, and networking events, I am sure that companies from both the Republic of Korea and the Netherlands will

find new windows of opportunity to strengthen the valuable bilateral trade relationship further.

Looking at all the participants of our mission to Korea, I must admit it makes me proud to represent our Dutch business community. 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 Korea. 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
(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 km²

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 km² (2022):
423

Unemployment rate
(CBS, 2022):
3.3%

English speaking Dutch
people:
90%

South Korea and the Netherlands

Paving the way for sustainable energy

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 South Korea, we are on a mission – to build partnerships and pave the way for a more sustainable future. While South Korea still relies heavily on fossil fuels, both countries are ready to take the leap and move towards greener energy and technologies. From 13 to 16 March, we'll 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.





Decades of relations

South Korea and the Netherlands have enjoyed over 60 years of diplomatic, economic and trade relations. In late 2022, this relationship was fortified with a joint commitment by both countries realising a strategic partnership. One of the main focuses of said partnership is sustainable energy efficiency. South Korea's government openly promotes energy-efficient methods in industry and look towards creating a more sustainable economy. Together, the two countries complement each other in a wide range of expertise.

Join us in accelerating the energy transition

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

Company profiles

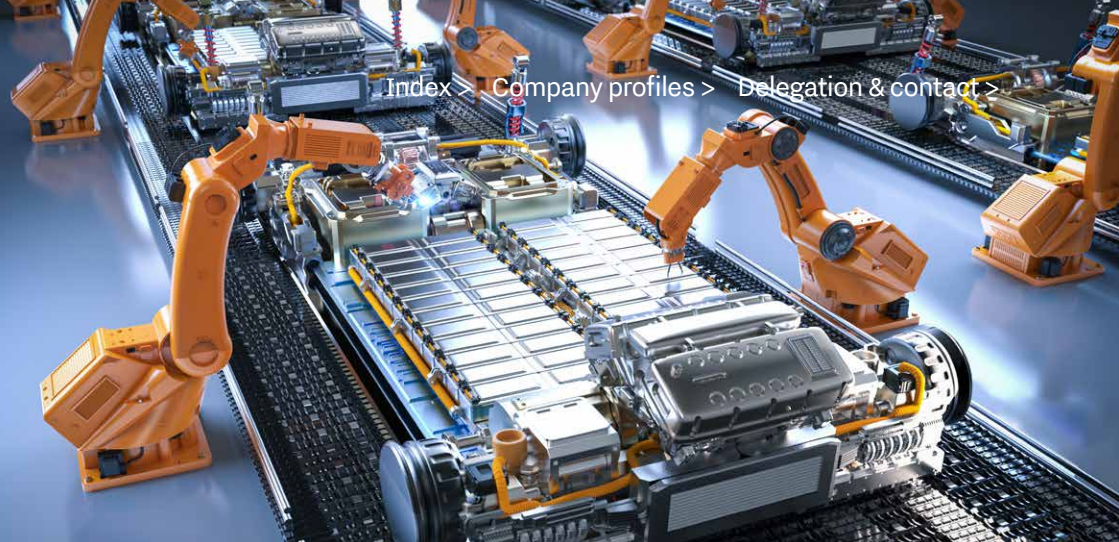
Battery Technology

Greenhouse Horticulture

Hydrogen

Offshore Wind

Partner



Battery technology

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Delft IMP

Enhancing materials to improve performance, lower cost and make them more sustainable. Delft IMP has created a new continuous and scalable process, which applies nanocoatings to powders. What's more, this technology can be scaled easily and cost effectively due to the mild pressures and temperatures we use.

Our unique and novel reactor enhances a wide range of powders used to power the next generation of sustainable technologies. This includes battery anodes and cathodes, fuel cells, electrolyzers and more. In batteries we build batteries with improved stability and greater cycle life. This empowers our partners to build more efficient cathodes and anodes, reducing waste saving money and contribute to a greener planet.



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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).

ElaadNL

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E-magy



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E-magy supplies nano-porous silicon for high-energy silicon-dominant batteries. Our specialty silicon ensures 40% higher energy density, is compatible with existing Gigafactory production lines and ready to be scaled up. The unique material is produced in our state-of-the-art production facility near Amsterdam, The Netherlands.

Our team consists of advanced materials specialists with over 20 years of silicon crystallisation experience and is driven to bring automotive and battery manufacturers winning battery performance. As ultimately our dream is for everyone to enjoy clean, electrically-powered mobility.



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E-magy. On with silicon



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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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Greencharge



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Greencharge is your partner for the most reliable, advanced and smart EV charging solutions currently available worldwide. Powered by the pioneers and current world leaders in both personal and commercial & industrial charging solutions, we tackle the bigger picture and focus on developing a nationwide, future proof EV charging infrastructure to accelerate the rEVolution!

Powered by EVbox, with over 350,000 charging stations installed worldwide in over 70 countries and with an unmatched track record in Korea with Greencharge in durability and reliability with partners and clients in the automotive, construction, commercial, government, we look to set our mark in the Korean market.

Furthermore, we specialize in the development of the smart cities of tomorrow. As a member of the National Smart City Convergence Alliance, working closely with KAIA and other governmental institutions and municipalities, Greencharge strives to contribute and add value to the existing local manufacturers and become a standard in the Korean market as a one-stop-solution EV infra services provider.

New launch in 2023 is our Greencharge PaaS, which will enable charge point owners to manage their smart stations and make profit of providing charging as a service.

Greencharge

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Hardt Hyperloop



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Hardt

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Hardt is the European hyperloop technology provider. Backed by an investment from the European Commission, Hardt is paving the way to certify hyperloop and realize the global hyperloop network. Hardt has demonstrated their full-scale hyperloop technology at low speeds and is now constructing the European Hyperloop Center, an open test and demonstration facility to define the open interoperable hyperloop standard. Hardt is founding partner in the Hyperloop Development Program, a public-private partnership supported by the Dutch government with 25+ partners, including other hyperloop companies, and research institutes.

In the hyperloop, magnetically suspended vehicles travel through a network of low-pressure tubes, diminishing friction. Energy consumption is up to 10x lower than traditional transport modes without producing sound or vibrations. It is estimated to be lower cost to build and maintain compared to high-speed rail while offering similar capacity at double the speed.

Hardt is working with Korean stakeholders to develop, derisk, demonstrate and deploy hyperloop in Korea. One of the major strategic partners and investors is POSCO International, Korea's largest trading company. On this mission we are looking for a pioneering launching customer for a short demonstration route and investors into our technology.





LeydenJar



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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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Mobilitum

Mobilitum designs and develops light electric vehicles and implements them in a business process. We do not stop at the delivery of a vehicle. By offering services such as leasing, Full service & maintenance, driver training and insurance; we ensure mobility and increase uptime.

Please take a look at our [website](#) for our products or connect with us on [LinkedIn](#).



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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.

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Open Charge Alliance

The Open Charge Alliance is a non-profit foundation, based in the Netherlands. Our mission is to foster global development, adoption, and compliance of communication protocols in the EV charging infrastructure and related standards through collaboration, education, testing, and certification. OCA governs the standard OCPP (open charge point protocol) and has more than 300 industry participants.

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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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Ministry of Infrastructure
and Water Management



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Ministry of Infrastructure and Water Management

The Ministry of Infrastructure and Water Management is committed to improving quality of life, access and mobility in a clean, safe and sustainable environment. Also the ministry coordinates the National Battery Strategy of the Netherlands. Under the battery strategy eight out of twelve ministries and several other government organisations collaborate in an integral and coherent approach. In addition we seek cooperation with companies, universities and knowledge institutes on subsequent topics.



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The aim of the Battery Strategy is to ensure that the increase in battery usage in society is safe, responsible and sustainable, while ensuring that the economic opportunities that arise from it are utilized.

The strategy is organised around five pillars:

1. Raw materials: fostering the availability of raw materials in a responsible and sustainable manner.
2. Circularity: circularity is important for sustainability as well as for increasing access to critical materials.
3. Safety: ensuring a safe use of batteries in society.
4. Economic opportunities: fostering innovation to come to safer and better batteries as well as a strong and healthy battery ecosystem that is linked to the international value chain.
5. Energy system: batteries play an important role in a stable and efficient energy system.

Ministry of Infrastructure and Watermanagement

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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.



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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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WE DRIVE  SOLAR

We Drive Solar



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We Drive Solar builds the energy system of the future with thousands of solar panels, hundreds of electric (shared) cars and smart charging stations. All We Drive Solar cars run on locally generated solar energy from 10,000 solar panels. Our charging stations can charge and discharge cars in a solar-controlled manner, also known as bi-directional charging. As a result, we can use car batteries as storage for a 100% sustainable energy system. Together with car manufacturers, we are making Utrecht the first bidirectional city in the world.

We Drive Solar

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Greenhouse horticulture

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Wageningen University & Research	40
Witteveen+Bos	41



Bom Group

Innovative Greenhouse Projects

Bom Group is one of the most innovative turnkey greenhouse construction companies in the modern horticulture. As renowned pioneering turnkey greenhouse builder for over 50 years, Bom Group has a wide project portfolio covering every climate zone. We are specialised in customised high-tech glass greenhouse projects across the globe, enabling growers and investors to grow their own fresh and sustainable vegetables, fruits, flowers and plants locally. Bom Group offers turnkey-services from conceptual-design to after-service and from A to Z. In the past 50 years Bom Group has grown to a world-leading greenhouse construction company with more than 1.000 projects across the globe.



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Bom Group was founded in 1966 as a greenhouse construction company, but soon expanded with the screening- and climate division. Our screening division was founded in 1977 and our climate division in 1983. Over the years our three divisions have been closely intertwined and are able to realize large turnkey projects under the name: Bom Group. Bom Group is a leading turnkey partner which means that we are able of taking on, and realizing, an entire project from A to Z. Bom Group is besides horticultural architect also the developer, engineer, producer, advisor and constructor of the project.



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Dalsem

Dalsem - Complete Greenhouse Projects

Dalsem is a leading greenhouse builder that develops complete high-tech greenhouse projects since 1932 that yield the highest quality and quantity of products in the shortest of time.

Dalsem X-Air - Semi-Closed Greenhouse Solution

Our latest technological development is the DALSEM X-AIR, Semi-Closed Greenhouse Solution. Dalsem designed the X-AIR greenhouse to maximize plant and crop growth by optimizing the greenhouse and its climate conditions in a sustainable way while saving earth's natural resources.

Less energy, less risk, more production!

The Dalsem X-AIR Semi-Closed System (patent pending) is an essential part of the energy-efficient climate control system. A solution that combines decentralized forced air ventilation and circulation to resemble natural airflow from above to the crop. By circulating and mixing greenhouse air with outside air or air from above the screens, optimal growing conditions are created inside the greenhouse with no limitations if the screens are open or closed.

Unique to Dalsem

The complete control of the design, manufacturing and execution of the project on-site is unique to our company. All parts of the greenhouse are built in our Dutch factory. Training, management and consultancy to ensure the right conditions for growth, will make your project complete.



**Dalsem Complete
Greenhouse Projects**

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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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PRIVA Horticulture



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With over 60 years of experience in greenhouse horticulture, PRIVA extends total solutions for controlling and managing any form of horticultural activity anywhere in the world. Priva is a climate tech company that's specialized creating the ideal climates for greenhouses, indoor vertical farms and buildings. By developing hardware, software and data services in the field of sustainable climate control, energy saving, and optimal reuse of water.

Greenhouses and polytunnels, vertical farming and indoor growing environments, offices, public buildings, retail, hotels, health care, and museums are enabled by innovative solutions that are used in a wide range of sectors such as. Worldwide, we have a customer base of 10,000 companies and 450 international installation partners. We supply sustainable solutions and services in more than 100 countries.



Inseok Ra

Manager

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Using horticultural expertise, entrepreneurs who grow a profitable crop in a sustainable way are enabled by PRIVA. Fertigation, labor, and energy go in hand with helping growers to manage the cultivation process in a greenhouse in a way that creates more continuity in the business.



PRIVA

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Tebarex

Tebarex is a supplier of irrigation systems, water treatment systems, electrical systems and grow light systems focused on the high tech international horticultural market.

Tebarex, established in the Netherlands, combines “global experience” with the innovations which regularly occur in Dutch horticulture.

The wide-ranging experience we have gained in all conceivable climatic conditions, including the cold in Canada and the heat in Mexico, has taught us that only the highest level of quality is good enough!

The correct design, proper choice of materials, optimal guidance and support in execution, and a well-organized after-sales service are therefore in the most capable hands with us.

For the design we use the latest design tools, such as REVIT-3D and Intelec.

So, you may rest assured that, for your project as well, the applicability of the very latest technologies in the area of horticulture, is carefully studied for feasibility and efficiency.

As a matter of course, we are working with clear, well-defined offers, designs and drawings, leaving no questions you may have unanswered and affording a clear choice.

Tebarex is equipped with advanced ERP software that all projects can be optimally managed.



Tebarex

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Sectorleader
Greenhouse horticulture



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Topsector Horticulture & Starting Materials

Horticulture & Starting Materials is one of the ten innovative Topsectors in the Netherlands that excel globally, working on solutions for societal challenges and the earning capacity of the private sector. We do so in an open, inclusive and innovative manner, together with knowledge institutes, the private sector and government.

We believe in the power of international collaboration. You will find Dutch entrepreneurs, researchers and suppliers of technology all over the world, working in co-creation on tailor-made solutions for local challenges, such as food safety and food quality as well as health, the sensible use of raw materials and the protection of our environment and biodiversity.

Topsector Horticulture & Starting materials is ambitious in the field of energy transition and climate change: by 2040 our horticultural sector will operate in a climate-neutral manner. The sector will phase out the use of fossil fuel by using aqua thermal, geothermal and residual heat, and hydrogen. An integrated approach supports emission free production in terms of energy, water and pesticides.

With soaring energy prices and the problems of climate change this transition is urgent, and cooperation is needed. In this trade mission, we share innovations supporting the energy transition in greenhouse horticulture in our two countries and foster opportunities for cooperation. With this, we give support to joint efforts in the important transition towards fossil free production of food and flowers.

Van der Hoeven Horticultural Projects



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In a world where sustainable, locally grown products are a priority, the demand for high-tech, efficiently designed greenhouses is growing. Since 1953, Van der Hoeven Horticultural Projects has been designing, build & operating innovative horticultural projects worldwide. We do this with our passion for technology and continuously invest in R&D to strengthen our propositions for growers and investors to maximize their return on investment.

Our focus, tailored solutions with a reduced footprint of produce concerning carbon dioxide, pesticides and water.

As a full-service provider we offer our clients a complete package of disciplines, from feasibility studies to cultivation advice. We combine strengths and deliver in house a total packages in greenhouse construction, climate installations, electrical- and water installations, climate computers and lighting for high-tech turnkey projects worldwide, with our local partners.

Continuous support is a priority for us, our specialists educate and train our clients towards a self-sufficient operating model. This is why we create long-term relationships, and we're proud of that.

Van der Hoeven provides innovative horticultural solutions anywhere in the world.

Van der Hoeven
Horticultural projects

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Wageningen University & Research



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The Greenhouse Horticulture group of Wageningen University and Research is the leading research institute in the field of greenhouse horticulture with expertise on all aspects: crop physiology, climate & energy, sustainable crop protection, water and nutrient efficiency, greenhouse design, robotics, and digitization. Our strength lies in multidisciplinary research on complete greenhouse production systems.

We do research projects on contract basis for the private sector, but also publicly funded research projects in line with national or international sector missions. We have collaborated with private partners in the development of a conceptual design of a demonstration greenhouse in the Seosan Agricultural Cluster.



Wageningen University & Research

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Witteveen+Bos

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.

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.



Hydrogen

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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.



Demaco

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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.



Duiker Combustion Engineers

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



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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.



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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 Combustion Engineers

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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



GRONINGEN SEAPORTS



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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.



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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.



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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.

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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



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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

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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 H₂S from gas streams and recovers it as elemental sulphur preventing SO₂ 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 H₂S 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 CO₂ 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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Royal Netherlands Aerospace Center

Our Mission

Royal NLR makes aerospace more sustainable, safer, more efficient and more effective. Our innovative solutions and practical advice strengthen the competitiveness of the business community and contribute to solutions for social issues. NLR works in an objective manner, for and with the (inter) national business community and government agencies.

Our Vision

The challenges in aviation are always greater than the possibilities of today. Only the continuous connection of an in-depth understanding of customer needs with leading knowledge and research facilities enables rapid innovation. NLR is the connecting link between science, industry and government.

Our Customers

NLR translates scientific knowledge into smart technological ideas based upon which the industry can develop concrete and competitive products. It thus serves as an intermediary between universities and businesses. NLR also provides materials for policy development by the public entities that are responsible for the safety and environmental aspects of air transport. NLR generates 75% of its turnover from paid contracts from the Netherlands and other countries, from governments to aircraft manufacturers, and from civilian to military clients. About half of NLR's industrial activities are carried out on behalf of small and medium-sized businesses.



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 CO₂ footprint of pipeline infrastructures by more than 50%. TCP is the superior pipe technology for the transport of hydrogen, CO₂ 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 CO₂ 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.



Ampelmann Operations

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



Pondera Group



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Pondera Group's activities are purely focused on renewable energy. The main divisions in the Pondera Group are Pondera Development and Pondera Consult. Pondera Development is the entity for project (co-) development in different project development stages, countries and renewable energy sources. Pondera Consult is our consultancy for renewable energy planning, development and a broad range of technical support such as wind resource assessments, (owner's) engineering and construction management. Pondera Group has its head office in the Netherlands and several offices in Asia (South Korea, Indonesia and Vietnam).

Our field of expertise encompasses various renewable energy sources, such as solar, geothermal and in particular onshore and offshore wind energy. We have more than 15 years of experience as a renewable energy consultant. We work with many partners and serve a wide range of customers, including governments, project developers, utilities, manufacturers and (national) electricity grid operators.

Pondera Consult is involved in all major onshore and offshore wind projects in the Netherlands and is also actively involved in offshore wind energy projects in other European countries and in Asia. With experience in offshore wind projects with a total capacity of more than 12 GW, we believe we are a good partner for international and Korean developers, consultants, engineering companies and governments.

Pondera Group

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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.

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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

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Official delegation

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