

Offshore Wind Trade Mission to Ireland

Wind Energy Ireland Trade Show
10 – 13 October 2023





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Foreword Nora Dassing

Embassy of the Kingdom of the Netherlands in Ireland



Climate change impacts us all. The weather conditions this summer, in all corners of the world, show us that we need to undertake action fast. Waiting is no longer an option. Therefore I'm so pleased that both the Netherlands and Ireland are firmly committed to reduce the impact of climate change and have shown ambition in this regard.

The development of a renewable energy mix is key in the Irish policy to reduce the use of fossil fuels. Offshore wind is one of the options the Irish government has to accelerate renewable energy in the Irish society.

Momentum is growing in the Irish offshore wind renewables sector. Last year the Irish government announced that it will increase the 2030 offshore wind target from 5GW to 7GW. The results of the first offshore wind auction ORESS 1 in June were an important milestone this year. It highlighted Ireland's enormous potential in offshore wind, having procured more than 3 GW of competitively priced green energy.

Not only do we need to increase the individual ambitions but both Ireland and the Netherlands need to seek cooperation with our neighbouring countries and within Europe. The North Seas Energy Cooperation (NSEC) is one of these international platforms in which The Netherlands and Ireland work together. The Netherlands believes in cooperation. Working together will not only bring down the cost of offshore wind, but will, for example, also help to address ecological effects. Close collaboration between our governments, knowledge institutions and business communities helps seizing these opportunities and tackling the challenges that come with it. Fortunately, we are already seeing an increase in cooperation between our governments, for example in the areas of hydrogen and port development.

The Netherlands Embassy in Ireland, together with our partners Holland Home for Wind Energy (HHWE) and the Netherlands Enterprise Agency (RVO), has been facilitating and stimulating links between the relevant Dutch and Irish business sectors and knowledge institutions in the past couple of years. I am extremely proud that the Netherlands is now participating in the first 'Wind Energy Ireland Trade Show' with a large Dutch delegation. I wish you all enjoyable and fruitful interactions leading to concrete cooperation.

Let's build on this momentum for offshore wind together.

Nora Dassing
Deputy Head of Mission



Foreword Arjen Schutten

Holland Home of Wind Energy



On behalf of Holland Home of Wind Energy I am delighted to be joining with a large group of Dutch companies and knowledge institutes this first edition of the Wind Energy Trade Show in Ireland. The timing is perfect. Earlier this year the Irish government selected four projects with a combined capacity of nearly 3.1GW for the first offshore wind auction under the Renewable Electricity Support Schema (ORESS 1). This is in line with the ambitious offshore wind target of 7GW.

The Dutch supply chain has strong offshore wind capability, stemming from a leading offshore oil and gas industry as well as balance of plant activities in many European, US and Asian offshore wind markets. In the burgeoning global floating wind industry Dutch companies are already involved in pre-commercial projects. Dutch offshore wind ports are well developed and are keen to transfer knowledge.

Although Ireland is considered a nascent market in terms of installed capacity, it is home to strong knowledge institutes and numerous companies with capabilities across all phases of the offshore wind supply chain. Irish services are mostly found below the Tier 1 level and can form a perfect match to Dutch contractors. We firmly believe that only by working together EU countries like Ireland and the Netherlands can achieve the ambitious climate and energy security goals set by our governments.

The fact that we are visiting Ireland for the third time with a large trade delegation clearly shows the importance the Dutch offshore industry private sector attach to the development the Irish offshore wind sector. "A journey of a thousand miles begins with a single step" is one of my favourite proverbs. Well, I believe we have already made many steps in bringing Irish and Dutch companies together. I am sure that this first edition of the Wind Energy Trade Show will produce many more matches.

Arjen Schutten
Managing Director HHWE



Company Profiles





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Acta Marine

Acta Marine works in a broad scope of maritime sectors. Our background is in shallow water projects, but in four decades we have developed our skills to include a variety of services for clients working throughout the maritime sector.

We operate globally, supporting clients in three main areas: Offshore Wind, Coastal Infrastructure, and the Oil & Gas industry.

We are a family-owned business. Our fleet includes DP Multicats, Walk-to-work vessels, Tugs, Crew Transfer Vessels, Multipurpose & Survey Vessels, and barges.

At the core of the company is a team of over 250 committed and reliable professionals.



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Damen Shipyards

Damen started out in 1927, a family-owned company amongst the shipbuilding community on the river Merwede in the Netherlands. Today, we are still there on the same riverbanks, still a family company. With over 35 yards and service hubs all over the world, however, our focus is global. We are well-known for our unique newbuild philosophy; the construction of standardized vessels for stock. For our clients this means rapid delivery of their assets. And, with RD&I undertaken over successive generations of series production, they can count not just on continual evolution, but on reliable performance. The commonality and reliability of our portfolio equals reduced maintenance requirements, leading to maximum vessel uptime, resulting in the lowest possible total cost of ownership over the vessel's lifecycle. We take pride in this and make sure that the same reliability and craftsmanship is applied also to our extensive range of marine components and the ship repair and conversion services that we deliver.

Damen has the ambition to become the most sustainable maritime solution provider in the world. We will deliver products and services that leave a positive impact on the environment and society, ensuring our long-term resilience. This is aligned with our values and is a must have for our employees, customers, suppliers, financial institutions and local communities.

Since the 1970s, Damen delivered quite a few ships to different kind of clients in Ireland. Last year even a very versatile 23 metres vessel for Atlantic Towage & Marine Ltd and the year before a Crew Transfer Vessel of 27 metres to Farra Marine. A very special project was the delivery of the Granuaile in 2000 to Commissioners of Irish Lights in Dublin, a buoy handling vessel of 80 metres. At Damen we notice the increasing interest of Irish clients in Offshore Wind Industry and it's up to us to provide them with the right solution and assistance.



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GustoMSC

The pioneers of offshore engineering

NOV is a leading provider of technology and equipment to the global energy industry. GustoMSC, part of the NOV Marine and Construction business, is recognized for providing advanced design & engineering consultancy for Wind Turbine Installation Vessels and Floating Offshore Wind Foundations and associated equipment. In close cooperation with our clients, we translate experience, science and technical knowledge into realistic & innovative ideas.

Based on our expertise and track record in jack-up vessels and floating foundations and the offshore wind market GustoMSC is well positioned to support clients (contractors and developers) in conceiving and realizing dedicated and integrated solutions to meet today's challenging requirements of the floating and fixed offshore wind markets.

GustoMSC | NOV

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HSM Offshore Energy B.V.

HSM Offshore Energy is an integrated solution provider in Engineering, Procurement, Construction, Installation and Commissioning of multi-disciplinary projects focused on Offshore High Voltage Substations, Hydrogen Production Platforms, Gas Production/ Processing Platforms and Modules and Steel Jacket Foundations.

Our two fabrication yards are situated in the greater Rotterdam harbour with unrestricted river access to the North Sea.

We work closely with highly qualified partners to service the industry Energy Transition for our future generations.

Since 1962 we built up an extensive track record which includes the World's very first Offshore High Voltage Substation in 2002.



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IQIP

IQIP is the worldwide leading foundation and installation specialist, and has been offering total solutions for construction projects in the Offshore Wind, Oil & Gas, and Coastal & Civil markets, as well as Decommissioning, for over 30 years. IQIP are experts in the development of innovative and high-quality equipment for efficient pile driving, handling, lifting and subsea pile guiding. Through consultancy, engineering, production and installation services, IQIP delivers tailor-made solutions to optimise operational efficiency and reduce risks on client projects.



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Lobster Robotics

Lobster develops lightweight, low-cost, and fast robots for visual surveying of the seabed. We use our data to create high quality photo-maps to enable quantitative research and analysis.

The robots can move omni-directionally and are suited for cable, foundation, and scour inspection (visually or hi-res multibeam), can be mounted with a variety of other payloads (sub-bottom profiler, water chemistry, etc).

The photos are mosaiced efficiently to form geo-referenced 2D maps (like Google Earth but underwater), or 3D digital twins of the asset/seafloor ecology.



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Mammoet

Mammoet provides solutions to any heavy lifting or transport challenge. We aim to develop long-term relationships with our clients in order to understand their businesses and challenges.

By working closely with our partners, we realize the most efficient and cost-effective approaches. We have a unique global network and an unparalleled fleet of equipment.

Our extensive engineering expertise and high quality and safety standards deliver value to a wide breadth of industry sectors and projects.



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Monobase Wind B.V.

Monobase Wind's core business includes offshore wind substructure design, engineering, and naval architecture. Monobase Wind is a group of offshore heavyweights leveraging 85 years of experience in the Offshore Oil & Gas and Offshore Wind industries to bring you foundations that work, as we have done consistently for decades.

Monobase Wind offers two patented foundation solutions. First and foremost, we have developed a unique hybrid floating foundation design together with Daewoo E&C, combining the best of both worlds from SPAR and semi-submersible floaters. We are looking for local supply chain partners and possible series fabrication facilities as well as access to demonstration sites i.e. 1 to 5 units.

Subsequently, Monobase Wind has also designed a smart self-installing gravity base foundation. The ideal solution for deep water bottom-fixed offshore wind and/or difficult soil conditions i.e. rock or arctic and sea ice conditions.

Both foundations consist of both concrete and steel components, or can be made entirely out of

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N-Sea

N-Sea is an integrated total subsea solutions provider in Survey, IRM & Construction, Subsea Cable Repair & Installation, and UXO ID & Disposal.

We deliver total solutions for subsea infrastructures and assets that meet the needs of our clients and the international oil, gas- and renewable industries, considering a safe environment.

We have the ambition to be the go-to total subsea solutions provider. We want to create a sustainable business and increase our profitability through solid project management and full client awareness.



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TNO

TNO is an independent research organization. Today, TNO wind energy's core mission is to reduce the cost of offshore wind energy into the whole of the energy system. This is achieved by developing innovative solutions with the industry and driving ground breaking R&D forward. TNO supports companies at the design, implementation and operational level.

TNO's wind energy group was formerly known as ECN, a true pioneer and technical authority on wind energy since 1975. At TNO's wind energy group, in-depth knowledge of the whole wind power system is combined with world leading full scale test facilities and accredited measurement experts.

TNO innovation
for life

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TU Delft Wind Energy Institute

As the oldest and largest technical university in the Netherlands, Delft University of Technology - TU Delft - has a strong foundation. As builder of the world-famous Dutch waterworks and a pioneer in energy technologies, TU Delft is a leading international university that provides world-class education, research and innovation. At TU Delft over 1000 researchers are active in energy transition collaborating with leading national and international partners. The TU Delft delivers evidence-based and technology-driven innovations in various offshore renewable topics such as wind, solar, hydrogen, marine energy, floating systems, circularity, system integration, low impact installation, nature inclusive design and port strategies. In doing so we use unique research and test facilities. To make 'Impact for a Better Society'. The Delft approach is interdisciplinary, creative, innovative and down to earth.



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Van Oord Offshore Energy

With over 20 years’ proven experience and an impressive track record, Van Oord is your partner for the construction, operations and maintenance of offshore wind projects. Our employees’ knowledge and expertise, wide range of specialised state-of-the-art offshore wind equipment and valued partnerships, enable us to be a reliable partner of choice and support our clients with integrated sustainable solutions and a competitive fleet. With Offshore Wind being a key contributor to achieving climate goals around the world, Van Oord is leading the way in the global energy transition towards renewable energy.

Van Oord is active throughout the entire value chain for Offshore Wind. From Balance of Plant to Transport and Installation for Foundations, Electrical Infrastructure and Turbines. Co-development, design, engineering, procurement, installation, commissioning, O&M, (heavy maintenance) and decommissioning are all activities Van Oord and its subsidiary MPI Offshore specialise in.

Our versatile fleet consists of offshore wind installation vessels MPI Resolution, MPI Adventure, Aeolus, Boreas (under construction), heavy-lift installation vessel Svanen, cable-lay vessel Nexus and Calypso and our powerful trenchers Dig-It and Deep Dig-It. We work closely with our clients, we work safely and with respect for one another and the environment. Working together proactively on safety is a natural part of that.

We are looking for partners in the full value chain of floating and bottom fixed offshore wind to support us with the delivery and maintenance of future offshore wind farms in Ireland.



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Windcat Workboats

Windcat, operating since 2003 and owned by CMB since 2020, is Europe's leading offshore personnel transfer company.

We own and operate a growing fleet of over 55 offshore CTV's. The vessel's layout and propulsion are optimised to transfer personnel offshore in a safe and comfortable environment. We choose to integrate hydrogen into all our new vessels to reduce our clients' CO2 emissions.

Along with CMB.TECH we have been developing hydrogen solutions and have elected to include Hydrogen into all our new build vessels to reduce our and intern our clients' CO2 emissions. We have a large team of people situated all over Europe operating and supporting our vessels.

In 2022 Windcat Offshore has been established and will be a dedicated business focused on CSOV ownership and operations. We will deliver the first CSOV into operations into operations in 2025.



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