

Offshore Wind Trade Mission to the IPF 2024

New Orleans 22-25 April 2024





Index

Foreword Lisette den Breems	4
Foreword Arjen Schutten	5

Harnessing the wind	6
Offshore Wind Energy Roadmap	7

Company Profiles

Atlas Professionals	9
CAPE Holland	10
C-Job Naval Architects	11
CORROSION	12
Deltares	13
Geomil Equipment B.V.	14
GustoMSC	15
Holmatro Industrial Equipment	16
Huisman	17
HYCOM	18
InterDam BV	19
iPS Powerful People LLC	20
Maritime Research Institute Netherlands (MARIN)	21
Osbit BV	22
Reynard Solutions	23
Royal IHC	24
Sif Netherlands B.V.	25
SPT Offshore BV	26
TME BV	27
Trelleborg Marine & Infrastructure	28
Ulstein Design & Solutions BV	29
VDL Klima b.v	30
Vuyk Engineering Rotterdam	31

Offshore wind focal points

Embassy of the Kingdom of the Netherlands in Washington DC	33
Consulate General of the Kingdom of the Netherlands in New York	33
Consulate General of the Kingdom of the Netherlands in Miami	33
Holland Home of Wind Energy (HHWE)	34
Netherlands Enterprise Agency (RVO)	34

Foreword Lisette den Breems



On behalf of the Kingdom of the Netherlands I am delighted to present to you this Trade Mission Booklet introducing our companies at the IPF.

With Vineyard 1 and South Fork Offshore Wind farms now in operation, the US offshore wind market is picking up speed. USBOEM, States and utilities have catalyzed a range of investments along the east coast. Activity is picking up here in the Gulf of Mexico and on the west coast. One of the primary obstacles to building a sustainable supply chain for the offshore wind industry in the USA is the current shortage of installation vessels. Fortunately, the ecosystem of shipyards and the maritime sector of Louisiana, Texas, Mississippi and Alabama is mobilizing to address these needs. We all know that new vessel construction takes several years. Retrofit of existing assets also costs time and money. Fortunately, Dutch naval architects and engineers have been working on these types of challenges in the USA for decades, and are very active on both new construction and retrofits happening in Gulf states already.

For the new energy generation capacity that is coming on line with offshore wind, which some call energy transition others energy addition, the international collaborations, joint ventures, and team-based problem solving between Dutch and US-based companies and people is of great value no matter what. For the Dutch, working at sea goes back centuries; and through working offshore for so many years our Kingdom and Dutch organizations have gained a deep understanding of the specific conditions above and below sea level that can make or break projects in infrastructure, industry and the environment. Bringing in our years of experience and expertise in wind energy, as well as our stewardship of the Dutch portion of the North Sea, we have grown a highly valued ecosystem – contained in nature, in business, and in people -- for the development and use of our natural resources towards a more sustainable future. The Dutch offshore wind industry is an important partner for the US and we would like this partnership to continue to flourish. There are more than 20 companies already working here in the offshore wind market. Around the world, we are part of a global supply chain in offshore wind that is considerable, repeatedly demonstrated by many companies operating in American, European and Asian offshore wind markets, all delivering entire balance of plant investment. We are especially excited to continue to exchange knowledge and experiences in offshore wind and the ocean ecosystem at this year's IPF in New Orleans, with more than 30 Dutch companies participating.

Please reach out if you have ideas for present and future collaborations!

Lisette den Breems

Consul General of the Kingdom of the Netherlands



Foreword Arjen Schutten



Here we are again! On behalf of Holland Home of Wind Energy I am delighted to be joining a large group of Dutch companies at the IPF 2024. This year the conference is located in the heart of America's offshore energy industry: New Orleans. The reasons for organizing the IPF in the Big Easy are obvious. The Gulf of Mexico is well positioned to transition to a renewable energy future. Its experience with offshore energy in general and global marine shipbuilding in particular will play a key role in the domestic manufacturing supply chain.

The region is also planning the first offshore wind projects. In the fall of 2023 the US Bureau of Ocean Energy Management (BOEM) finalized four new wind areas in the Gulf of Mexico that could support offshore wind projects with the potential to produce enough renewable energy to power more than three million homes. Creating an offshore wind industry in the Gulf of Mexico will take time and partnership. The Dutch offshore wind sector is keen to support the development of the local supply chain. In fact Dutch companies are already involved in the development of the first Jones Act-compliant offshore wind turbine installation vessel that currently is being built in Brownsville Texas.

The Dutch supply chain for offshore wind is considerable, stemming from a leading offshore oil and gas industry, today repeatedly demonstrated by many companies for entire balance of plant investment in many emerging offshore wind markets around the globe.

The business delegation at this edition of the IPF also represents a variety of companies that are relevant to the offshore wind industry, such as knowledge institutes, naval architect bureaus, foundation manufacturers, contractors and other offshore wind technology providers. We are committed to grow the relationship with the United States in the offshore wind industry, drawing from our decades-long experience and expertise. I hope that the IPF will generate a lot of business leads and I wish you all a very successful conference!

Arjen Schutten

Managing Director Holland Home of Wind Energy (HHWE)



Harnessing the wind

Offshore wind energy is one of the pillars of the Netherlands climate policy. By 2050, we want our energy supply to be climate-neutral. Generating offshore wind energy is indispensable for this. More offshore wind energy is needed to reduce CO2 emissions by 2030. In 2022, the government raised the offshore wind energy target from 11 to 21.5 gigawatts (GW) around 2030. By then, offshore wind will produce approximately 21.5 GW, circa 75% of our current electricity needs.

Due to the increased wind energy target more wind farm sites are needed. The North Sea Agreement is an important starting point for generating more wind energy at sea. It states that we will investigate whether there is room for additional wind farms at sea. In the North Sea Programme 2022-2027, the cabinet designated the wind energy areas Nederwiek, Lagelander and Doordewind for this purpose.

The Offshore Wind Energy Roadmap shows where wind farms are or will be built. And which offshore wind energy areas have been designated to build wind farms in the future.

The roadmap looks some 10 years ahead.

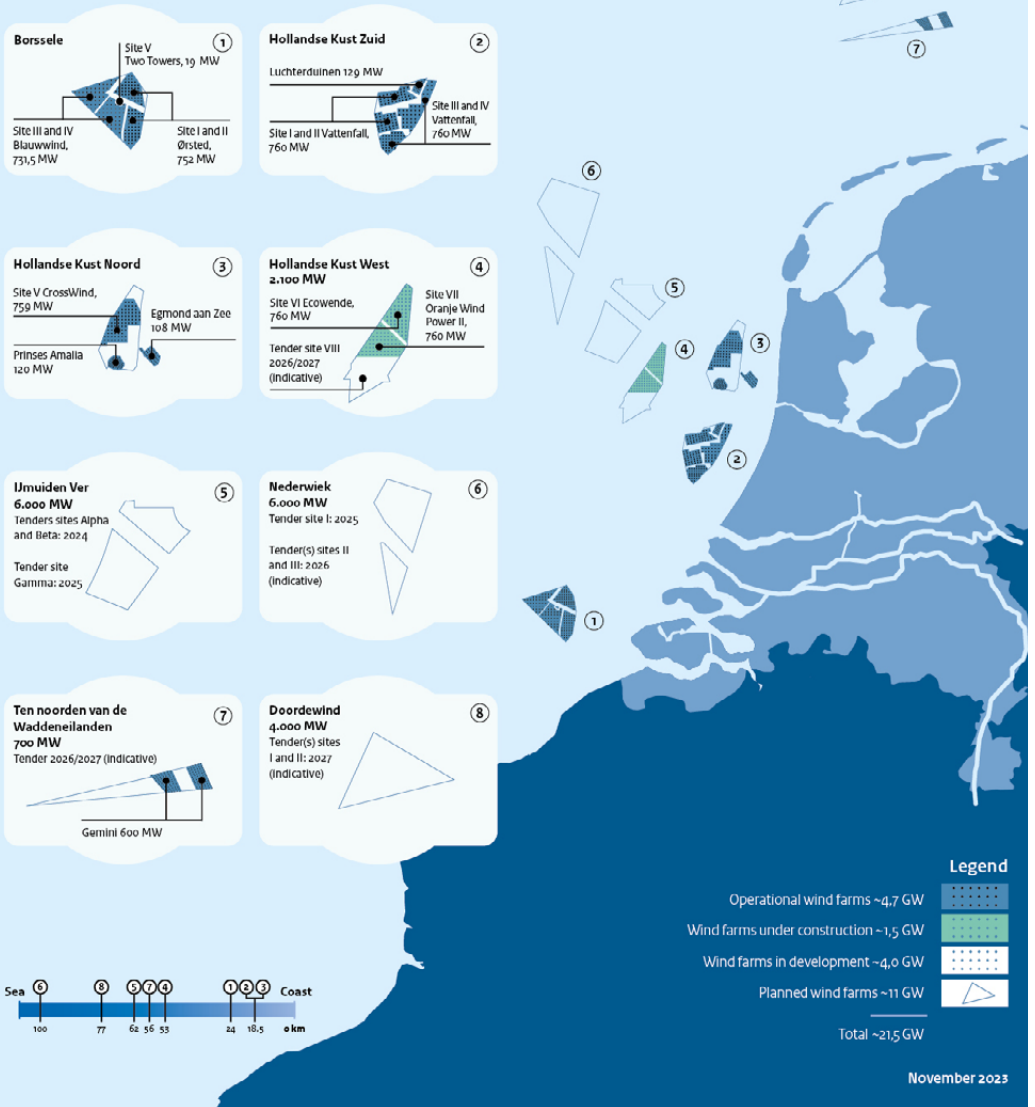
Dutch Offshore Wind Innovation Guide 2024

Follow the QR code to download the Dutch Offshore Wind Guide 2024. This annual guide strengthens international awareness of Dutch offshore wind industry solutions. It highlights cost-reducing technology innovations and export projects. It also offers many opportunities to learn more about the Dutch regulations and industry competencies. The guide benefits international stakeholders, industry professionals and the offshore wind sector.

The Dutch Offshore Wind Innovation Guide 2024 is the result of a collaboration between the International Clean Energy Partnership programme and Wind & Water Works.



Offshore Wind Energy Roadmap



Company Profiles





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Atlas Professionals

Atlas Professionals is an international recruitment and HR services company specializing in both white- and blue-collar recruitment for the Energy, Marine & Renewables industries.

Operating globally with offices in 23 countries, we strive to create a reliable, agile and sustainable business environment where Professionals can secure the career they deserve whilst giving our clients access to the best talent our industries have to offer. We do this by offering bespoke project solutions – along with comprehensive recruitment planning and workforce development strategies.

With more than four decades of experience under our belt, and local offices in the United States, Atlas Professionals is dedicated to ensuring that our clients and our professionals remain at the frontier of the industry. Atlas Professionals provides proficient, qualified and experienced Renewables personnel on a permanent, ad-hoc or direct hire basis.

Since the emergence of offshore wind in the US, Atlas Professionals has served as a valuable knowledge partner to the industry; supporting our clients, training providers, community outreach programs, academia and the unions on the significance of work force planning and development.

As part of this monumental energy transition, Atlas Professionals is committed to creating US jobs with a diverse and equitable workforce for future generations.

We understand the short term need of EU specialists working alongside US homegrown talent to impart knowledge and operational know-how on these projects. From experienced specialists to onshore project support and union labor Atlas Professionals can facilitate a multi skilled workforce to meet project objectives.

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CAPE Holland

ALL WAYS DRIVEN

We are passionate about piling; we continuously improve the performance of pile installation and removal: faster, easier, smoother and more sustainable. We love to make impact and contribute to good vibrations. Our customers' offshore oil, gas and wind projects are of the greatest significance. These mighty constructions require solid foundation, and we are there to support them with the smartest piling equipment and all our knowledge, skill and craftsmanship. CAPE Holland is a proud member of the Venterra Group, a dedicated wind services company, helping wind power grow.

PILING OUTSIDE THE BOX

Above all, we are solution providers. We think in possibilities. Whether we need to be creative in sourcing the proper equipment for you, or the situation requires an 'out-of-the-box' approach. We are the pioneers in offshore vibro driving. Our work includes research, design, and engineering. We try and test. Both behind a desk, and with our feet on deck. Resourceful as we are, we've invented better tools by learning from onshore piling, combining functionality, reducing frills and adopting to the most demanding circumstances. Challenge us, like we challenge ourselves!

BUILDING ON PARTNERSHIPS

We believe in the power of collaboration. Whether it's among colleagues or with customers and business partners: together is better. That means we listen, empathize and think along with you. And we value the exchange of knowledge. We are no-nonsense people, too: we do what we say and we say what we do. Since relationships are built on trust, we take our responsibilities seriously. Not just in doing business and optimizing work safety, but in respecting our planet and expanding renewable energy as well. We realize our offshore work has an impact on sea life. Therefore, we're constantly looking for ways to work as quietly as possible.





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C-Job Naval Architects

As a dedicated naval architect, C-Job is driving change. We are passionate about making it happen: a sustainable maritime industry in one generation. Architectural innovation is our job. We help our clients to build better ships, become 100% sustainable, and run better because of it. Our portfolio of services, designs, and programs guarantees better OPEX and CAPEX for new vessels, as well as existing ones. Our presence in Houston enables us to provide support in the US time zone directly and our diverse team of over 180 professionals, experienced in all phases of ship design, from feasibility through production is able to support as well. Our independent position means we serve our clients as a knowledge partner helping them find the right unbiased solution for their needs.

C-Job provides industry leading naval architecture and marine engineering services to the offshore wind industry. We continue to build on our experience by supporting ship owners, installation contractors, and developers with innovative solutions to meet the unique challenges of the US offshore wind industry. Some of the vessel types we are experienced in include:

- Floating Offshore Heavy Lift and Installation Vessels
- Service Operation Vessels (SOV)
- Offshore Wind Feeder Vessels (OWFV)
- Cable Laying and Repair Vessels (CLV)
- Wind installation support fleet general
- Many more...

We support our clients from the very early stages of ship design with feasibility studies, developing business cases, all the way through the design process to the shipyard production engineering. We then continue our services throughout the life of the vessel bringing ongoing innovation to project outfitting and vessel operations through our consulting services. In addition, we also support our clients with third party design reviews and building support at shipyards.

For more information, please visit www.c-job.com.



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CORROSION

CORROSION has been in the business of protecting offshore wind farms, vessels and onshore applications against corrosion and fouling since 1993. From our humble beginnings in the small town of Moerkapelle in the Netherlands, we've grown into an internationally recognized leader in creative, sustainable, state-of-the-art solutions in corrosion and cathodic protection.

Our highly sophisticated ICCP and ICAF systems are utilized by companies large and small around the world, protecting their valuable assets and equipment in even the toughest and most demanding conditions. Excellence is born of experience and expertise, and our unique research laboratory at our global headquarters in Moerkapelle is the beating heart of our company. It's where we test and develop new products and services, enabling us to lead the way in creating innovative anti-fouling and corrosion solutions.

Over the last three decades, we've expanded not just in terms of what we do, but also geographically, with successful subsidiaries everywhere from Germany and France, to China and Vietnam.

CORROSION is the global market leader in protecting wind turbine foundations in an environmentally friendly way by using ICCP. Since 2008 we protected more than 2,200 foundations and installed more than 3,200 systems.

Our slogan is 'Let's make wind truly sustainable' - words we put into action every day around the world by providing state-of-the-art solutions for the foundations of wind turbines among other things. What few people may realize is that traditional methods of protecting metal surfaces against corrosion in offshore environments are by no means pollution free. The result? Some wind farms are far more eco-friendly above water than below it. By choosing our unique ICCP solution, we are helping to make wind turbines as clean and sustainable as the energy they produce. Something we hope and believe the whole industry can achieve by embracing new technologies.



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Deltares

We are Deltares. A not-for-profit, world-leading, and mission-driven Dutch knowledge institute for water and the subsurface. We work throughout the world and we are guided by the major societal issues, for which Deltares' knowledge is indispensable. This is what drives our highly qualified workforce of 800 colleagues, which is comprised of over forty different nationalities.

Using applied research, we develop in-depth knowledge that is necessary and useful for decisions. By ensuring this knowledge is accessible to everyone, we help with innovative solutions. Where do we make a difference? By building on the continuity of our knowledge base. As an important knowledge partner, we help the government, companies, and society. Together, we achieve our mission: Enabling Delta Life.

Deltares & offshore wind

In order for offshore wind to become a cost-effective renewable energy technology, further cost reduction is needed, all the while minimising the impact of offshore wind farm development on the environment. The future generation of wind farms will also face new installation challenges in deeper and increasingly more hostile environments. Whether you are an offshore contractor, energy utility, or engineering company, we can assist you throughout your design, installation, operation & maintenance, and decommissioning phases. Our specialty expertise in waves, currents, geotechnics, geology, morphology, ecology – and their dynamic interaction involving multiple stakeholders - is of key relevance for offshore wind projects. We develop knowledge and tools for the industry that mitigates and minimizes risks to guarantee safe, reliable, sustainable, and cost-efficient operations. We are always actively looking for (industry) partners to collaborate on Joint-Industry Projects to further accelerate achieving the ambitious global targets related to the energy transition.

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Geomil Equipment B.V.

World's first manufacturer of CPT equipment

For over 85 years, Geomil has been developing and manufacturing Cone Penetration Testing (CPT) equipment, enabling high-quality and effective geotechnical site investigations. CPT data is fundamental for reliable offshore soil profiling as it sets the basis for cost effective project realization.

Offshore products

The most commended Geomil systems are the Manta-100, Manta-200, Orca-90/125 and Marlin-120.

- Geomil Manta's are seabed CPT systems which can operate anywhere from shallow to deep waters. At the heart of the Manta is the unique Continuous Drive System (CDS), providing unrivalled push capacity. The latest addition to the product range is a Seismic Source Frame allowing for seismic CPT.
- The Orca is a downhole CPT and soil sampling system compatible with most common drill rigs. The Orca can provide real-time data and has proven to ensure high efficiency and repeatable test data.
- The Orca can be supported by a Marlin seabed template.
- All Geomil offshore equipment is modular such that key components can be used with different systems in the portfolio.

Support from A to Z

We support our clients from the very early stages of vessel design with feasibility studies and developing business cases, through the design process to the shipyard production engineering and building supervision. We then continue our services throughout the life of the vessel bringing ongoing innovation to project outfitting and marine operations through our consulting services.

Every corner of the world

Geomil's head office is in Moordrecht (The Netherlands). We have regional offices in Montreal (Canada), Kassel (Germany) and Kuala Lumpur (Malaysia).



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Geomil is looking for partners with the ambition to develop the market for offshore wind, using CPT technology. We are specifically interested to collaborate with:

- Geotechnical companies.
- Survey companies with an interest to step into geotechnics.
- Vessel owners with the ambition to equip their vessel for CPT.
- Companies interested to act as a reseller or service provider.





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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 our Marine & Construction business, is recognized for providing advanced design & engineering consultancy for mobile offshore units such as Wind Turbine Installation Vessels and reliable equipment like jacking systems and heavy lift cranes. In close cooperation with our clients, we translate experience, science, and technical knowledge into realistic & innovative ideas.

The performance of new and existing jack-ups, vessels and semi-submersibles is further optimized by our operational support and engineering consultancy. In this way, GustoMSC enables and supports safe and efficient operations at sea, contributing to a sustainable future.

Offshore Wind Installation in the U.S.

Meeting the U.S. offshore wind target of 30 GW installed capacity by 2030 presents significant supply chain challenges and opportunities. GustoMSC is contributing to these developments with the design of capable Wind Turbine Installation Vessels and the supply of highly capable jacking systems and cranes, as well as the design of Feeder Vessels, Blade Installation Vessels and Modular Service and Operations Vessels. In addition, we are building a solid supply chain for our floating offshore wind turbine foundation Tri-Floater, with the aim of delivering floating wind at scale.

Jones Act-compliant vessel

The construction of the Charybdis WTI is an important step, led by Dominion Energy. The vessel is a GustoMSC NG-16000X-SJ design being built at Keppel AmFELS, Brownsville, Texas. It will be one of the world's largest jack-up vessels, due to be operational at the end of 2024.

Feeder solutions

In parallel, GustoMSC has been developing various feeder solutions among which the Steady Top Feeder Vessel. This specially designed transport vessel will be able to load WTG components in port and transport them directly to the field. At the site, a dedicated WTI Jack-up will be able to lift-off WTG components safely from a motion compensation platform. In addition, GustoMSC is developing moored feeder solutions, jack-up feeders and docked feeder solutions.

Based on its expertise and track record in jack-up vessels and the offshore wind market GustoMSC is well positioned to support clients in conceiving and realizing dedicated and integrated solutions to meet the requirements of US offshore wind turbine installation.





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Holmatro Industrial Equipment

Founded in 1967, Holmatro Industrial Equipment is worth over +55 years of experience with high pressure hydraulic tools & systems. We are proud that after all this time we are still a MADE in The Netherlands company with inhouse research & development, engineering and production. We aim to provide you with the most safe, reliable, durable and ergonomic solution for your application, delivering high-quality products, excellent service and great customer care.

OFFSHORE WINDS SYSTEMS & SERVICES

Over the last decades, Holmatro Industrial equipment has built a proven track record providing various solutions for the Offshore Wind Industry. In our way of work, partnership is key. Most projects were developed & executed in close cooperation with the developer, engineering companies and installation contractors. Besides hydraulic solutions to level and fixate wind turbine foundations, such as transition pieces and jackets, we have supplied various systems in the field of cutting, sea fastening, deck handling and skidding solutions.

Your reliable choice in demanding circumstances;
Transport
Installation
Maintenance
(Onsite) service
Decommissioning



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Huisman

We are Huisman. A family-owned business, built on innovation. We design, manufacture and service heavy construction equipment for the world's leading companies in the renewable energy, oil and gas, civil, naval and entertainment markets. Our products range from Cranes, Offshore Wind Tools, Pipelay and Drilling Equipment to specials.

The history of Huisman is one of setting new industry standards. Of making impact, since 1929, with step changing technical solutions that vary from stand-alone components to highly engineered integrated systems. From concept to installation and lifetime support.

With our passionate workforce and worldwide production, service and sales facilities, we are equipped for impact in these times of transition.

We take pride in our exceptional track record of delivering innovative solutions to the renewable energy industry. One of our notable achievements in the US is the successful delivery of a 2,200mt Leg Encircling Crane to the first ever jack-up vessel built in the USA. This milestone not only showcases our commitment to pioneering advancements, but also highlights our expertise in the field.

We've also provided DEME with a state-of-the-art Motion Compensated Monopile Gripper and Spreader on board the DEME Orion and a 1,600mt Leg Encircling Crane on board the DEME Sea Installer, enabling the installation of the latest generation of wind turbines for the Vineyard Wind 1 wind farm.

For the installation of XXL monopiles at Ørsted's South Fork wind farm, our 4,000mt Offshore Mast Crane and Motion Compensated Monopile Gripper onboard Boskalis' Bokalift 2 were successfully used.

Furthermore, the secondary steel installation work was performed by Otto Candies LLCs US-registered Paul Candies vessel, equipped with a Huisman 250mt Pedestal Mounted Offshore Crane, including active heave compensation functionality.

To protect cable and foundations, Great Lakes Dredge & Dock Company contracted Huisman for a Rock Installation System tailored for offshore wind, for installation on their vessel currently under construction at Philly Shipyard.

With our commitment to excellence and extensive industry experience, we are your trusted partner.





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HYCOM

As part of the HYDAC group HYCOM specializes in designing innovative, new hydraulic drive and control systems for example lifting systems for self-elevating platforms, shock absorbers, active systems for heave compensation and special winches with or without constant tensioning.

We keep in mind that the hydraulic systems and hydraulic power units (HPU) for the offshore and offshore wind industry are subject to special requirements. No matter where your system will be used, whether it is out at sea, on land or subsea, HYCOM provides the best possible hydraulic solution. From the (pre)design phase we are involved in in-depth discussions with you, our client, because we know how to handle the current requirements set by all the major classification agencies and have knowledge of all the latest hydraulic technologies.



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InterDam BV

As an early entrant to the offshore wind market, InterDam developed a range of weight-saving products that comply with the DNV-ST-0145 standard for offshore substations. InterDam's G21 light-weight sandwich panels provide the most cost-effective solution for internal and external walls of offshore wind substations. As well as reducing topside weight, InterDam's panels are easy to transport and are easy to install. InterDam also used its extensive offshore experience to develop a range of fit-for-purpose fire doors that maximize lifespan and minimize maintenance in harsh offshore conditions. Our weather-tight, durable fire doors can be applied both in substations and in the Transition Pieces of the wind turbines.

We have supplied our products to over 60 number of OSS and HVDC platforms worldwide for major operators as Ørsted, TenneT, EnBW, Iberdrola, EDF, Vattenfall, RWE and Parkwind.

Design, engineering, fabrication, supply and installation of architectural products for the Offshore SubStations or HVDC platforms.

- External wall panels
- Internal wall panels
- External double sealed doors
- Internal doors
- External windows
- Deck insulation
- TP/MP Doors



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iPS Powerful People LLC

iPS is your international personnel provider in the Maritime, Offshore Wind, Oil & Gas and Tunnelling industry!

The company was founded in 1988 and is headquartered in The Netherlands with offices and representatives in Australia, Dubai, Germany, Lithuania, Mexico, South Africa, the United States of America, United Kingdom and more.

iPS has extensive experience in offering personnel to the Offshore Wind Sector in Europe, United States and Asia. For over a decade we have provided personnel in 80+ different Offshore Wind farms on both operational as administrative / engineering / management levels.

For over 35 years, iPS offers local and international recruitment and payroll solutions. We offer both white collar (administrative, management) as blue collar (operations, crew) personnel.

Services we offer:

- Direct hire
- Perm-to-hire
- Contingent labor
- Crewing Services
- Visa and Migration support



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Maritime Research Institute Netherlands (MARIN)

MARIN is a globally recognised top institute for hydrodynamic and nautical research in the Netherlands. Our mission is 'Better Ships, Blue Oceans': we stand for clean, smart and safe shipping and sustainable use of the sea. We do this as an independent knowledge partner for the maritime sector, government and society.

MARIN USA Inc has branch offices in Houston and Chesapeake Bay. Both offices act as a bridge to the knowledge centre at MARIN in Wageningen The Netherland by connecting U.S. clients to the experts in Wageningen.

MARIN provides local client support, third party verifications work and design optimization studies, including floating wind simulations and model tests for design verification.

The Houston offices also includes a Bridge simulator facility to assist our clients with Port development, Approach manoeuvres and Wind turbine installations.

We like to use our knowledge to make innovative solutions workable. Wind turbines, wave energy conversion systems and marine current turbines need to be able to withstand the forces of nature and generate as much power as possible.

As well as contract research for customers, we initiate projects and support networks to encourage cooperation in the industry. We supply concrete products such as workability analyses for the maintenance of structures and the optimisation of maintenance vessels, including motion compensation and on-board advice systems.

We partner with you from concept to design, offering our expertise and experience, using in-house developed tools and methods matching your needs and adapting to your deadlines. Our tools and methods range from use of databases and simulations towards model scale experiments, simulators/virtual reality and full scale monitoring.





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Osbit BV

We are a team of people passionate about driving the global energy transition forward by developing cutting-edge equipment solutions to the offshore renewable energy sector.

The systems we design and build are used to install offshore wind farms across the globe. We work on projects across a wide range of technology areas including cable lay, repair & burial, foundation installation, lifting & handling and access.

We're here to redefine what's possible to drive the energy transition forward. With decades of experience in developing offshore equipment, our team is a hub of specialist knowledge and expertise.

We assist our clients from methods & equipment concept development through to design, build and support during offshore operations.

Osbit's team works closely with clients to tailor solutions that continue to redefine and shape the future of the offshore industry.



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Reynard Solutions

We perform a wide range of offshore high voltage activities for the connection and maintenance of offshore wind assets, covering array, export or interconnecting cables. Our track record covers a multitude of wind farms and substations. We employ the largest team of HV specialists in the industry. All our staff receive proper and project-specific in-house training and certification prior to every new project. As a result, our professionals deliver the highest quality of work in shortest amount of time, with an outstanding safety record.

Reynard recently became part of the WTS Energy Group, thereby enlarging its global presence creating the ideal combination of a contractor's mind-set with the flexibility of a large global workforce. Early involvement with our clients is therefore the key to joint success. As experts in our field, we jointly work towards reducing offshore downtime and risks. These time-saving measures are engineered during preparation phases where team optimization and smart solutions are scrutinized to reduce offshore operation time. For the benefits of both our clients and ourselves. We are aiming to combine three goals - helping our clients become successful while improving the environment at the same time and create a well-trained local workforce.

Our aim is simply to become the best jointing company in the world.



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Royal IHC - IHC Offshore Energy

Connecting the future of energy

The offshore wind industry is constantly evolving. At the same time, operational efficiency, improving sustainability and safety are of great importance. Drawing on a wealth of knowledge and experience, IHC Offshore Energy is ready to support you to stay ahead of these developments.

We are a leading supplier of reliable and advanced vessels, equipment and services for the offshore renewables and telecoms' markets. We can help you to achieve more efficient and sustainable offshore operations with designs, assets and services that are aimed at achieving maximum safety, performance and reliability.

Sophisticated designs based on shipbuilding experience

We have a proven track record in delivering a range of (integrated) vessels, vessel designs and equipment, which can be adapted to include various sustainable solutions. As such, we offer a sophisticated range of:

- Inter array cable lay vessels
- Export cable lay vessels
- (Commissioning) Service Operation Vessels
- Mooring Installation Vessels,
- Anchor Handling Vessels and
- Offshore support vessels

Everything to complete your mission

We have been providing equipment and technical expertise to the global cable lay market for over 30 years. Our philosophy is to build safe and reliable equipment that is easy to mobilise, simple to operate and maintain and improves operational efficiency. Our mission equipment portfolio includes:

- power cable installation equipment including carousels and quadrant handling systems.
- tracked cable tensioners and winches.
- Tracked trenching vehicles, jet sleds and power cable ploughs.
- Specialist launch and recovery systems

Customised solutions based on partnerships

Creating the optimal solution for our customers is at the core of our business. Our holistic approach starts with your project requirements. This includes a complete in-house package, from concept design to vessel delivery, with after-sales contracts. Our service portfolio includes 24/7 support, training courses, equipment mobilisation plans, upgrades and refurbishment, rental equipment and consultancy opportunities.

IHC Offshore Energy is part of Royal IHC. Our experience dates back to the mid-seventeenth century. As we navigate new waters in an ever-changing world, our aim remains unchanged: to discover the smartest, safest and most efficient way forward together with our customers.



IHC Offshore Energy

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Together, we create the maritime future.





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Sif Netherlands B.V.

Sif, founded in 1948, is a company with a solid track record. From a purely manufacturing company of large, thick tubular steel structures, the company has transitioned towards a total solution provider of offshore wind monopile foundations. Sif employs over 600 people at two manufacturing sites in the Netherlands: Roermond and Maasvlakte 2 (Rotterdam). Sif is listed on Euronext Amsterdam since May 2016.

The Roermond plant, which covers more than 100,000 m², specializes in the manufacture of cans and cones, transition pieces, pin piles, jacket legs and pile sleeves.

The Maasvlakte 2 plant has a state-of-the-art layout for monopile fabrication, over 62 hectares for storage and transshipment with expansion options, with perfect access to the open North Sea.

What we are proud of:

- More than 2,000 monopiles and transition pieces produced.
- Highly automated production processes.
- Early involvement with our customers.
- Powerful partnerships.
- Unique know-how and expertise in rolling and welding.
- Financially sound.
- Proven track record of high quality, delivery on time within budget.
- Robust quality and HSE procedures.
- Relentless focus on sustainability and our employees.

Sif has over 20 years of experience in the manufacturing of monopiles and transition pieces. Sif has constantly invested in manufacturing capabilities in order to follow the technical developments in the monopile foundations industry. In fact, Sif is regularly one step ahead of the market, creating new possibilities for the use of monopiles as the preferred foundations solutions for future projects.

As for the transition pieces, Sif provides the primary steel components for the TPs. For the secondary steel package, coating and final completion of the TP structure, Sif has excellent collaborative relationships with industry-respected partners and subcontractors.

In recent years we have seen the development of a new foundation concept being the TP-less solutions. Sif has already gathered several years of experience with this new concept.



Sif OFFSHORE
FOUNDATIONS

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Sif capabilities Monopiles:

Diameter: 11 metres
Weight: 1,800 tonnes
Length: 105 metres
Wall thickness: 160 mm
Production rate 4-5 per week

Sif capabilities Transition Pieces:

Diameter: 9.3 metres
Weight: 950 tonnes
Length: 32 metres
Wall thickness: 160 mm
Production rate 4-5 per week





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Desk Manager

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SPT Offshore BV

SPT Offshore is a DEME Offshore Business Unit specialized in suction pile foundations and anchors. In our 25 years of existence we were involved in the design, supply and/or installation of over 1,000 suction piles, including 118 wind turbine foundations up to 10 MW. Suction pile installation is silent. The installation force is generated by water pressure difference hence a minimum of energy is required to install a suction pile foundation. Suction pile structures can be fully decommissioned and even be reused. Combined with the one-piece lift solution it can be considered as the most energy effective and silent foundation solution.

We offer a noise free solution for fixed WTG and substation foundations as well as anchor solutions for floating wind turbines. All based on proven technology. Together with our industry partners we're developing the so-called Tri Suction Pile Caisson (TSPC). The TSPC combines the fabrication advantages of a monopile with the installation advantage of a suction pile jacket and more the TSPC can be split and float on the suction pile base.

Because of the buoyance smaller Heavy Lift Vessels are required for foundation for larger turbines and in deeper waters.

For floating offshore wind suction pile anchors will be in many occasions the most advantage solution as suction piles anchors combine the following advantages in particular besides the noise free and fast installation:

- Large holding capacity also in vertical direction for tension leg moorings
- Combination of multiple anchor lines
- Limit amount of sediment required
- The seabed only requires a limit amount of sediment layers.



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TME BV

We deliver offshore equipment. Custom-built. For offshore operations - subsea burial, cable installation, scour protection and foundation installation.

Our commitment is to simplify offshore operations by delivering the most practical and reliable equipment available in the market. Efficient offshore operations are the direct outcome of our work.

We have recently completed the design and build of the rock handling system for the world's first US-flagged Jones Act compliant fallpipe vessel for north America's leading dredging contractor Great Lakes Dredge & Dock.

TME has equipped the US with protective covers for the foundations of the Vineyard, South Fork and Revolution Wind offshore wind farms. US turbine manufacturers such as GE and Nordex have deployed our protective covers for protecting towers and nacelles prior to installation.

TME is a pioneering forerunner in patented noise mitigation deployment systems compatible with the US developed resonator panels ADBM, utilized for protecting marine wildlife during offshore operations. Mechanical engineers, in-house fabrication, project management and field technicians support our unwavering commitment to deliver excellence - the best solution, on time and within budget.

Exciting news! We are thrilled to announce that we have expanded our horizons to the USA with our new Delaware Inc! We are now closer than ever to serving our American customers with top-notch equipment.



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Trelleborg Marine & Infrastructure

Trelleborg Marine & Infrastructure's polymer sealing and damping solutions are built on deep expertise and decades of craftsmanship. When it comes to offshore wind, immersed tunnelling, dredging, water infrastructure, noise and vibration isolation, and high-performance special projects, the operational capability of our solutions are assured at the highest level, so our world keeps moving and working. We have unrivalled global reach, with feet-on-the ground local presence, cross-industry expertise and in-house end-to-end solution capabilities, combining to improve integrity, sustainability and efficiency, and accelerate performance across projects.

Trelleborg's industry-leading solutions for offshore wind foundation seals are built on deep expertise and design knowledge to help you calculate the right specifications with accuracy and precision. Whether you are developing your first designs or innovating on your previous successes, our experience of working alongside contractors and subcontractors ensures that we deliver product excellence and support within your timelines.

We are proud to have been the trusted supplier for more than 3600 Foundation Seals in offshore wind over the last 15 years. Next to these seals we focus on providing solutions to offshore renewable energy market with airtight deck seals, inflatable seals, flange protection sealing system, flexible mooring system, self-activating seals, anti-vibration solutions, shock pads, fenders, compression seals, buoyancy, installation & inspection.



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Ulstein Design & Solutions BV

Turning visions into reality!

We are a leading ship designer with proven track record in the offshore industry. We design game changing ships for the offshore energy market. Sometimes brilliantly simple, sometimes sufficiently complex.

ULSTEIN provides best-in-class solutions, combining a pragmatic design approach with extensive naval architectural skills and market knowledge.

Working together as a team, we push for sustainable solutions, developing state-of-the-art and fit-for-purpose ship designs that are cost-effective, safe, comfortable and providing an efficient working place for the crew.

For over 100 years, the family owned ULSTEIN Group has been associated with innovation and quality in design and delivery, meeting the demanding marine challenges by embracing change and identifying opportunities.

Our design and services portfolio

- Heavy Lift Foundation Installation Vessels
- Rock Installation Vessels
- Service Operation Vessels (SOVs/W2W)
- Heavy Transport Vessels
- Feeder Vessels
- Cable Lay Vessels
- WTIVs
- Operability studies
- Motion studies
- Clean power solutions
- Conversion design

Engaging in business partnerships

We have successfully collaborated with shipowners in the design of vessels compliant with the US Coast Guard regulations, with a strong emphasis on Jones Act compliance in the United States and adherence to US working practices.

We are eager to extend our business partnerships with shipowners looking for an experienced design partner to support realizing their ambitions in offshore wind. Additionally, we are actively engaging in discussions with (F)OWF developers to explore current and future needs and requirements for offshore wind vessels.



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VDL Klima b.v

HAND IN HAND DESIGN WITH THE EPC, OEM AND END-USER

VDL Klima is specialist in designing, engineering and producing industrial heat exchangers & cooling systems for a wide range of industries, supporting its customers worldwide.

Besides one-off orders, we also produce in smaller up to larger series. Due to the fact that we are able to manage the entire process in-house (from design to production and assembly) we are extremely flexible throughout the entire project, allowing us to directly incorporate customer requirements as well as late changes into the execution of our production. As a result of that we have excellent control over cost and lead-time.

VDL Klima, part of VDL Groep, stands for "Strength through cooperation". Working together with our customer and where its adding value also with our fellow sister companies as a partner to achieve the optimum result. Our experienced specialists work therefore closely together with your own experts in thermal and mechanical design and offer the best after-sales support. Collaborative, open and reliable is in our DNA, making our customers feel free to do what they do best in partnership. Working together to create the best product for your customer.



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Vuyk Engineering Rotterdam

Vuyk Engineering Rotterdam is an independent maritime engineering office with over 150 years of experience in the field of commercial vessels. What sets us apart in the market is that three specialisms are represented in one office: vessel design, equipment design and operational engineering. We call this our trifecta focus on maritime challenges.

We are known for finding innovative and high-quality engineering solutions essential for the development and optimization of complex maritime projects. With a rich history dating back to 1872, we have built an unparalleled reputation in the areas of ship design, equipment design and technical consulting.

The Vuyk Engineering Rotterdam team consists of 125 highly qualified engineers and experts, who collectively strive to provide solutions that push the standards of the maritime industry. We support the maritime world in a wide range of services, from conceptual and basic designs to detailed engineering, providing clients with customized solutions that meet the most demanding requirements of today's maritime industry.

With a strong focus on sustainability, safety and efficiency, Vuyk Engineering Rotterdam is driving progress in the maritime industry. As a supplier to numerous shipyards and marine contractors, Vuyk Engineering Rotterdam has all the in-house expertise to support innovative projects in various maritime markets: dredging, subsea, offshore wind, renewables and the heavy lift market.



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