

PRESS RELEASE  
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### **PivotBuoy Kick-off meeting and project website launch**

The PivotBuoy project is pleased to announce the launch of its website ([www.pivotbuoy.eu](http://www.pivotbuoy.eu)), and inform about its kick-off meeting that took place on the 15th and 16th of May 2019 in Brussels, Belgium.



*Picture: Pivotbuoy Consortium at Kick-off meeting, Brussels.*

The project partners from five European countries met in Brussels, to kick-off this ambitious research project and collaborate on the PivotBuoy® system, a novel, single point mooring system platform, which could significantly reduce the cost of floating offshore wind. The project has received €4M of EU Commission Horizon 2020 funding.

The consortium will integrate a part-scale prototype of the PivotBuoy into a downwind floating wind platform designed by X1 Wind at PLOCAN's test site. The system will be installed by 2020, where other innovations related to assembly and installation will be validated.

Once proven, the technology stands to reduce platform weight by as much as 80 per cent and costs by 50 per cent, turning floating wind competitive. The project aims to validate the benefits of the PivotBuoy system and other key innovations to reduce installation, operation and maintenance costs, paving the path to achieve 50€/MWh in commercial scale wind farms.

Alex Raventos, CEO of X1WIND and project manager of PivotBuoy underlines:

“The project aims to develop an advanced single point mooring system which can contribute significantly to the cost reduction of floating wind as well as being able to move into deeper waters. It is a pleasure to work together with experienced industry partners and R&D

organizations from the offshore wind, naval and oil and gas sectors to validate the advantages of the PivotBuoy system”.

The Consortium is formed by nine partners from five different countries: X1Wind, ESM, WavEC, PLOCAN, INTECSEA, EDP, DTU, DNV GL and DEGIMA. The project officially started on April 1 and will last for 36 months.

For further information about the project you can visit the project’s website: [www.pivotbuoy.eu](http://www.pivotbuoy.eu) or follow us on Twitter (@pivotbuoy) or LinkedIn.

## **NOTES TO THE EDITOR**

### **Partners Info**



**X1 Wind** (Exponential Renewables, S.L.), the project coordinator, is a company founded in 2017 for the development of X1 Wind concept ([www.x1wind.com](http://www.x1wind.com)). The concept was developed by its founders between 2012 and 2014 while at MIT and is the result of more than 10 years of experience in working for leading wind turbine and marine energy companies. X1 Wind’s mission is to develop disruptive and scalable solutions such as the PivotBuoy, with exponential impact, making offshore renewables cost-effective and global, untapping the huge potential in deep waters. Despite its recent foundation, X1 Wind has obtained several international prizes and raised significant private and public investment from re-known funds in the energy and technology sectors such as Innoenergy, H2020, NEOTEC, ACCIO Startup Capital or the Cleantech Camp prize.



**ESM Energie- und Schwingungstechnik Mitsch GmbH** is a leading manufacturer of elastomer components for the isolation and damping of vibrations in wind turbines. ESM works together with nearly all turbine manufacturers all over the world, having equipped more than 100,000 wind turbines with ESM gearbox supports. Its product range currently features components for wind turbines with capacities of up to 12 MW. By participating in the PivotBuoy project, ESM will be able to apply their expertise to the emerging floating wind sector, participating in the manufacturing of the elastic coupling of the PivotBuoy, one of the key components of the system.



**WAVEC – Offshore Renewables** is a private non-profit association devoted to the development and promotion of offshore energy technologies, with 15 years of experience in the simulation and testing of floating wind and other ocean energy systems. WAVEC has specific focus on numerical

modelling of floating structures, socio-economic issues, environmental impact assessment and an active involvement in the dissemination of offshore renewables and policy planning globally. Due to their large experience in similar projects, they will lead all communication and dissemination tasks as well as undertaking part of the numerical modelling and simulation of the prototype.



**PLOCAN** (Oceanic Platform of the Canary Islands) is a multi-purpose service centre with land-based novel infrastructures to support research, technology development and innovation in the marine and maritime sector. PLOCAN has extensive experience in ocean and wind energy, contributing with the hosting of equipment, devices and marine technologies for testing, validating and demonstration activities in its marine test site. PLOCAN offers the PivotBuoy project a unique marine energy testing facility and will also be able to lead the test planning, monitoring and environmental impact assessment of the PivotBuoy system as well as contribute to the installation and maintenance activities with its practical experience in previous projects.



**EDP CNET** is a subsidiary of the EDP Group and has the mission of creating value through collaborative R&D in the energy sector. EDP Group is a medium sized European utility with a strong innovation background that has important presence across all the energy value chain. EDP CNET is committed to research and development with a strong focus in technology demonstration projects. Its long track-record as a utility both in the commercialization of electricity as well as in the market integration of new technologies will play a key role in validating the commercial application of the product and associated services. The experience on the Windfloat (a pilot floating offshore wind project) and other innovative energy projects, as well as EDP experience developing and operating commercial offshore wind farms and other large power plants will be key to provide the project with an end-user perspective. They will perform the LCOE assessment and the socio-economic impact, as well as contributing in the development of the technology and the exploitation plan.



**INTECSEA** is part of **Worley Group**, one of the world's largest engineering and project delivery firms, having performed engineering, design, procurement, construction and operations and maintenance services for hundreds of power, industrial, commercial and government facilities in many different sectors. More specifically, INTECSEA Floating System Group is one of the largest in the Oil&Gas industry,

with experience designing all types of floating systems, such as TLPs and SPMs. Due to their vast experience in project management in the Oil&Gas sector, INTECSEA will take upon the risk assessment and Health & Safety aspects of the PivotBuoy system, as well as supporting X1 Wind in the design and development of the PivotBuoy system by providing extensive technical expertise in the offshore environment.



**The Technical University of Denmark Wind Energy (DTU WE)** is a leading technical university that has undertaken basic research, teaching and commercial activities in all aspects of wind energy since the mid-1970's. It is the world's largest public research institute for wind energy and is internationally recognised as a globally leading department. The department has a significant tradition in coordinating very large research activities such as the EERA (European Energy Research Alliance) Joint Programme Wind. Due to their deep know-how in wind systems, they will lead the numerical modelling and simulation of the prototype, as well as the performance assessment.



**DNV GL Group** is a global quality assurance and risk management company providing classification and technical assurance along with software and independent expert advisory services to the maritime, oil and gas, and energy industries. They also provide certification services to customers across a wide range of industries, delivering world-renowned testing and advisory services to the energy value chain including renewables and energy efficiency. Their expertise spans onshore and offshore wind power, marine renewables, solar, conventional generation, transmission and distribution, smart grids, and sustainable energy use, as well as energy markets and regulations around the globe in delivering a safe, reliable, efficient, and sustainable energy supply. DNV GL will provide the PivotBuoy project with independent advice and ensure that international standards are followed as the leading certification company in the offshore wind sector.



**DEGIMA** is a steel manufacturing company established in 1997, by a group of professionals with extensive experience in the metal sector, mainly in Naval sector with large experience in marine renewable energy sector. DEGIMA is one of the companies with largest experience in manufacturing ocean energy prototypes. Since 2006, it has manufactured four different Power Buoys, one wind measurement mast, several LIDAR Buoys to measure wind, Underwater Substation Pods, among other different

structures and ancillary products. DEGIMA is also co-owner of ACORN solution, a coating using Thermal Spray Aluminium mixed with biocide designed specifically for static floating devices such as buoys. DEGIMA will manufacture the PivotBuoy prototype as well as contribute to the design and planning phases bringing decades of experience in the naval sector.



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