

EDF: Polish offshore wind programme - opportunities and challenges for the development of a new industry

Ocean Winds: Generating the future of offshore wind energy

Strategic Partners



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POLISH OFFSHORE WIND PROGRAMME - OPPORTUNITIES AND CHALLENGES FOR THE DEVELOPMENT OF A NEW INDUSTRY



31.03.2024

We spoke to Alicja Chilińska-Zawadzka, CEO of EDF Renewables Poland, about the prospects for the development of the offshore wind energy sector. Among the topics discussed were the French experience in the energy transition, including the issues of developing competences for a zero-carbon economy, and building a supply chain involving local companies.

Paweł Wróbel, BalticWind.EU: How to combine the realization of a just energy transition with the need to develop competencies for modern industries of the economy?

Alicja Chilińska-Zawadzka, CEO of EDF Renewables Poland:

Developing competencies for modern industries of the economy, including wind energy, is indeed a major challenge. According to estimates by the Polish Wind Energy Association, almost 200,000 new jobs will be created at onshore and offshore farms by 2030. This is a huge number of specialists and competencies needed.

On the other hand, Poland has the most valuable asset - highly skilled and experienced employees of sectors that will be "extinguished" in the next decades. Such a sector is the mining industry. Therefore, we believe that these two elements in Poland's case should be combined - it's a mix that can contribute to meeting the growing needs of modern industries in the economy.

That's why in 2023 we launched the "Wiatr - Kopalnia Możliwości" ("Wind - Mine of opportunity") program, which is targeting miners leaving the mining sector. We want to provide them with the opportunity to work in a new, stable industry such as wind energy. After completing the training, miners will be ready to work as wind turbine technicians and service technicians - and their competence will be confirmed by certificates recognized around the world. We have planned the program for 3 years, so it will last until 2026. During this time we will train about 60 people.

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Alicja Chilińska-Zawadzka, CEO of EDF Renewables Poland

Paweł Wróbel: In your opinion, what should be the direction of Polish-French cooperation in implementing the energy sector's transformation towards zero-carbon? Which of EDFR experiences from global markets can add the most value?

Alicja Chilińska-Zawadzka: Poland and the French energy transition have a lot in common. In France, EDF has successfully implemented a process of change to shift the economy to greener tracks. We are happy to share our experience with Polish energy leaders, because we share a common goal: Europe's energy security and a zero-carbon economy. We know how to implement offshore projects within the financial and time regime, and we know how to build efficient supply chains based on local content. We have innovative solutions that we create in our R&D department. We are ready to share our knowledge to effectively create a new industry in Poland and thus support the energy transition.

As EDF Renewables, we are already engaging Polish contractors to develop our international energy projects. As a result, they are gaining experience and acquiring new competencies, which may prove to be crucial when implementing offshore projects in the Polish Baltic Sea.

Paweł Wróbel: Why is participation of local companies in the implementation of projects, especially in the offshore wind sector, important for EDFR?

Alicja Chilińska-Zawadzka: In our experience, local content is of strategic importance. This belief is reflected in our philosophy of strongly influencing local economic growth.

We learned how important the involvement of local companies is to the success of a project during the construction of our Saint-Nazaire offshore wind farm. The project was being built in a difficult economic environment, and it was primarily because we based our supply chain on local content that we were able to complete construction on time and on budget.

Our experience also shows that participation of a few dozen, or more, percent of Polish companies is a necessary condition for the success of Polish OWF development. It is also a chance to build a new, stable branch of the economy. In France, only with the implementation of 3 offshore farms, we created 7,000 new jobs, which still exist today.

Poland and the French energy transition have a lot in common. In France, EDF has successfully implemented a process of change to shift the economy to greener tracks. We are happy to share our experience with Polish energy leaders, because we share a common goal: Europe's energy security and a zero-carbon economy.



Alicja Chilińska-Zawadzka, CEO of EDF Renewables Poland



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OCEAN WINDS : GENERATING THE FUTURE OF OFFSHORE WIND ENERGY



31.03.2024

Ocean Winds (OW) is not only assessing the Polish market with the goal of constructing the BC-Wind farm but is also committed to a long-term strategy aimed at promoting industry education among young people and implementing practical measures to harness the potential of Polish companies in developing innovative solutions.

Our activities lead not only to an increase in the participation of domestic companies in projects developed in the Polish Baltic Sea. OW being one of the world's largest offshore developers also opens the door for Polish companies to global markets. By supporting and facilitating companies to develop and implement innovative solutions, Ocean Winds is fulfilling its commitments under the BC-Wind Project Innovation Strategy



Kacper Kostrzewa, BC-Wind Project Director

OW's goal is to support a market that relies on local companies and people by providing them with opportunities to benefit from offshore wind farm development. That is why Ocean Winds is involved in several initiatives among which are:

ELBE Challenge

The competition, organized last year with the support of the European Commission by the ELBE (European Leaders of Blue Energy) Alliance, offered the opportunity to prepare solutions for offshore wind farm developers who were invited to support the initiative, including Ocean Winds. Among the winners is the Polish company Blue Armada Robotics, which presented a project to implement the operation of unmanned autonomous vessels to support offshore wind farms. In Poland, for the BC-Wind project, Ocean Winds reported a very specific need for ready-made solutions to carry out their implementation as early as 2024 from the four thematic areas of inspection, safety, rescue support and provision of means of transportation to wind farms.

As the representatives of the small and medium-sized companies participating in the competition emphasized, in addition to the financial support they won, the involvement of the industry representing the end users of the deployed technologies, such as Ocean Winds, was crucial.

Their participation in this program was a unique opportunity to learn about the real needs of the offshore wind industry and prepare technologies and services that have a great chance of being implemented. Such involvement on the part of OW and other experienced companies helps develop European, including Polish, players focused on innovation.

OW, considering support for Polish offshore talent, has long been engaged in educational initiatives on both national and international scales. We ensure that these efforts yield tangible outcomes. We firmly believe in the significance of knowledge transfer and endeavor to ensure that nurturing young talent and fostering interest in the renewable energy sector truly contribute to the advancement of the industry in Poland.

Aleksandra Jampolska,
Public Affairs and Stakeholders Senior Manager BC-Wind



MEWY Competition

Ocean Winds is proud to be the sponsor of a competition organized by the Maritime University of Technology in Szczecin (Politechnika Morska w Szczecinie) and the Marshal's Office of the West Pomeranian Voivodeship (Urząd Marszałkowski Województwa Zachodniopomorskiego). This contest, ongoing since 2020, targets high school students, undergraduates, and PhD students, aiming to promote the topic of renewable energy sources and stimulate participants' creativity.

Ocean Winds sponsors paid internships at its Warsaw office for students and PhD candidates. During the awards ceremony of the 4th edition on March 22 this year, another individual was honored with a unique opportunity to gain hands-on industry experience under the guidance of specialists involved in the BC-Wind project.

Last year, two students completed a 6-month internship at Ocean Winds' office, and since the first edition of the competition, two individuals have secured employment in Ocean Winds' technical and procurement departments. Alongside Ocean Winds, this year's edition was also supported by PWEA, RWE, ORLEN Neptun and WindHunter Academy.

Career with Wind Programme

Career with Wind (Kariera z Wiatrem) is a program developed since 2021 in selected vocational schools in Gdańsk, Częstochowa, Puck, Kłanino and Szczecin. Starting with the first edition, 250 students studying the profile of renewable energy technician have already participated in lectures and workshops.



During the Career with Wind classes, young people learn about many practical aspects of offshore wind farm construction, the creation of a component supply chain and strategic stages of farm development using examples of specific OW investments around the world. The program is implemented by Ocean Winds together with the Przemysłowa Akademia Rozwoju.



WindExperts Competition

The international competition is organized by Ocean Winds in Poland, the UK, Portugal, and Spain starting in 2020. The program involves conducting a series of online lessons for elementary school students on offshore wind energy. Each school participating in the program receives access to an educational platform, which includes lessons and educational games to test students' knowledge. The program culminates with a short film competition on the construction of the most interesting offshore wind turbine from recycled materials. Among the winners of the 2023 edition selected by Ocean Winds are seventh-grade students from Elementary School No. 84 in Gdańsk (Szkoła Podstawowa in Gdańsk).

Trade Fair EDU OFFSHORE WIND

Launched in 2023, this project stands as Poland's sole career fair connecting students and schoolchildren with opportunities in the green energy sector. Since its inception, Ocean Winds has been a consistent supporter of the EDU OFFSHORE WIND initiative, serving as a partner for both editions of the fair.



Previous editions held in Gdansk attracted nearly 20,000 visitors, primarily pupils and students from the Pomeranian Voivodeship. The fair provided young attendees with the chance to engage with Ocean Winds employees and discuss potential career paths within our company.



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WIND TOWERS FACTORY
IN GDAŃSK



The largest investment
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500 highly qualified
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Towers for wind turbines with
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production capacity sufficient to
produce over **150** towers
per year.

Let's be in touch!

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Offshore wind towers factory in Gdańsk

- The most modern offshore wind towers factory in Europe is being built in Gdańsk.
- The production hall located on **6.2 hectares** of Gdańsk Ostrów Island will be able to produce over **150 towers a year** for wind turbines with a capacity of **15 MW** and more.
- This investment is not only a step towards sustainable development, but also creates prospects for the local community.
- Thanks to the factory, **500** new, highly specialized jobs will be created, offering residents of the Tricity and surrounding areas the opportunity for dynamic professional development!





OVER 10,000 PARTICIPANTS AT THE EDU OFFSHORE WIND 2024 CAREER FAIR

06.03.2024

The second edition of the EDU OFFSHORE WIND career fair, primarily aimed at high school students and university students, has concluded in Gdańsk. The event was accompanied by the slogan “We share our passion for green energy with the youth!”. The success of the event is primarily measured by the enthusiasm and significant interest in the topic of energy transition from young people, schools, and universities present at the Amber Expo exhibition halls in Gdańsk on March 5-6. BalticWind.EU has been a strategic media partner of both editions of the initiative.

The fair brought together over 120 exhibitors representing various stages of the supply chain for the offshore wind industry. This European-scale event aims to educate on zero-emission technologies and present career paths in the offshore sector. The event has once again been well-received by companies in the industry, as well as educational and academic environments, addressing the employment prospects in this field.

Among the fair’s opening speakers were representatives of local authorities. Mieczysław Struk, the Marshal of the Pomeranian Voivodeship, emphasized that the offshore industry represents an opportunity for development in the region. Aleksandra Dulkiewicz, the Mayor of Gdańsk, highlighting the power of education and collaboration, pointed to the growing need for qualified workers for companies, supporting the idea of EDU OFFSHORE WIND as part of a consistently implemented educational program. Michał Pasieczny, the Mayor of Rumia, emphasized the importance of providing green energy to companies for selling products on the scale of the European Union, which is related to meeting ESG requirements.

Małgosia Bartosik, Vice President of Wind Europe, highlighted the enormous challenges facing the offshore sector and the need to install significantly more wind power to meet the goals of the EU Net-Zero Industry Act. She also mentioned that the EDU OFFSHORE WIND fair is a unique initiative on a continental scale.

Stefan Musiolik, Secretary of the Baltic Sea States Subregional Conference, emphasized the need for cross-border cooperation in offshore not only at the national level but also at the regional level.

During the official opening of the fair, a charter was signed, which will be placed in a so-called time capsule and embedded during the construction of the Baltic Towers wind turbine factory. On the first day, signatures were also collected on a card that will be closed in the time capsule and embedded during the construction of the Baltic Towers wind turbine factory in Gdańsk. On this occasion, the details of the investment were presented by Jakub Wnuczyński, the CEO of Baltic Towers.

During the Pomeranian Offshore Platform conference organized as a part of the fair, Memorandum of Understanding on the Pomeranian Partnership for Skills within the EU Pact for Skills were also signed. Over 30 key entities participated in the signing, including the organizers and initiators of the fair, such as the Pomeranian Offshore Platform and The Pomeranian Offshore Wind Energy Competence Centre, local government authorities, higher education institutions, industry organizations, and offshore sector companies.

The aim of the MoU is to strengthen resources in the Pomeranian region in terms of education and the labor market for the development of the renewable energy sector, with a special focus on offshore wind energy identified as a strategic area for achieving climate neutrality in the European Union through activities at the local, national, and international levels within the Baltic Sea Region cooperation. International cooperation development will take place primarily through collaboration with the Baltic Sea States Subregional Co-operation (BSSSC), which is among the signatories supporting the Agreement.



During the fair, large-scale elements of offshore wind farm structures could be seen and touched, and participants could take part in workshops and live demonstrations. For young people, employers from the offshore wind energy sector and other energy mix technologies were available in one place. Hydrogen workshops “Hydro Love” were organized in collaboration with the Hydrogen Technologies Cluster as part of the international project Green Skills for Hydrogen.

The educational career fair EDU OFFSHORE WIND 2024 was preceded, as in the previous year, by a special educational program dedicated to students interested in offshore wind farms. This year’s edition involved over 140 schools from the Pomeranian Voivodeship. The current edition of EDU OFFSHORE WIND is not only a fair but also an educational program, workshops, shows, and competitions aimed at young people to instill a passion for green energy.

The event was initiated by the Pomeranian Offshore Platform and The Pomeranian Offshore Wind Energy Competence Centre. It was organized by AMBEREXPO Exhibition and Congress Center, Rumia Invest Park, Co-Made and the Offshore Energy Innovation Industry Foundation. The main partners of the event are the Pomeranian Voivodeship and the city of Gdańsk.



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special report in Polish

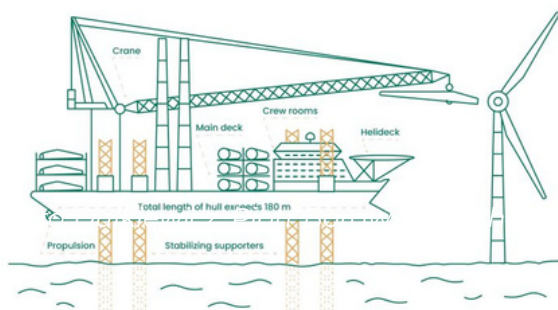
PGE AND ØRSTED SIGNED A CONTRACT FOR INSTALLING WIND TURBINE GENERATORS FOR BALTICA 2

03.01.2024

PGE Group and Ørsted contracted fleet for installation of 48 from 107 wind turbines for Baltica 2 project – one of two stages of the Baltica Offshore Wind Farm.

Installation of wind turbines for Baltica 2 has been divided into two stages, and a contractor for each stage is selected in separate tender procedure. The first batch of turbines that PGE and Ørsted contracted in April 2023 will be installed by Fred. Olsen Windcarrier.

Offshore wind turbines installation vessel



Self-elevating ships so-called jack-ups are the most common vessels used for installation wind turbines offshore

- Dimensions: hull length over 180 meters, hull width about 60 meters
- Large surface deck and load capacity allow for carrying up to 7 sets of 15 MW turbines
- Onboard crane with heavy lifting capacity and long arm allows for installation of turbines on the height exceeding 150 meters above deck
- Dynamic positioning system and supporting legs of the vessel allow for installing elements of turbines with highest precision
- The vessel can accommodate crew of about 100
- Helideck allows for exchanging of crew without the vessel pausing in operation

baltica2+3 by PGE & Ørsted

Fred. Olsen WindCarrier has performed turbine installations and offshore repair or replacement services for many wind projects around the world, most of them off the coast of the British Isles. The task related to the installation of wind turbines for Baltica 2 will be carried out by a jack-up vessel.

*We open the new year with an important contract for the installation of wind turbines. Considering the challenges facing the offshore wind industry globally, we are particularly proud that we are consistently and according to plan signing further agreements with experienced market players, which bring us closer to the implementation of Baltica 2 – a pioneering project in terms of scale of the offshore wind energy market in Poland,” said **Agata Staniewska-Bolesta, Managing Director of Ørsted Offshore Poland.***

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REPORT: COMPETITIVE INDUSTRY AND STABLE SUPPLY CHAIN – 10 STEPS FOR A STRONG WIND SECTOR IN POLAND

10.01.2024

The wind industry will bring reliable and stable profits to the Polish economy in the coming decades, while increasing the involvement of domestic companies and industry. The data shows that by 2040, the onshore and offshore wind sectors can guarantee nearly 200,000 new jobs and more than 450 billion zlotys in added value for the Polish economy. But for this to happen, a resilient, sustainable and competitive wind power supply chain is needed.

To support the strength of the service and product base for the wind sector, the Polish Wind Energy Association established the Wind Industry Hub Foundation, which presented a report at the launch that outlines an action plan for the development of the Polish wind industry.

Wind Industry Hub Foundation – response to market and industry needs

Commitment to companies working for the wind industry is key to supporting the building of a strong industry and service base. To this end, the Polish Wind Energy Association has established the Wind Industry Hub Foundation, which works to improve energy and economic security by ensuring an adequate industrial base in Poland and strengthening the role of Polish companies in the European supply chain.

*Wind Industry Hub is a response to current challenges signaled by investors and related to the need to develop local supply chains for the wind sector. We want Poland to meet the ambitious EU targets in terms of creating a strong and resilient industry and a stable RES market. What we need today is an informed industrial policy that prioritizes the development of technologies and projects, defines the directions of specialization of manufacturing plants, profiles industry education, or defines a framework for financing – says **Dominika Taranko, Managing Director, Vice President of the Wind Industry Hub Foundation***

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Read the entire article [here](#)

Source: windindustry.pl

VESTAS ANNOUNCES SECOND OFFSHORE WIND FACTORY IN POLAND

12.01.2024

Vestas wants to become a leader in offshore wind, supporting Europe's build-out of offshore wind parks, and we are excited to announce our plans to establish a new blade factory in Szczecin, Poland. The factory is planned to produce blades for Vestas' flagship offshore wind turbine, the V236-15.0 MW, and is expected to start operations in 2026, creating more than 1,000 direct jobs. Together with Vestas' previously announced plans to establish an assembly factory for offshore nacelles in Szczecin, Vestas' manufacturing footprint could increase with more than 1,700 direct jobs by 2026.

Vestas intends to lead the development of a sustainable supply chain in Europe that can deliver the scale needed to meet the expected growth in demand for offshore wind. Our plans for two new offshore factories in Poland underline that Europe can spur wind industry investments and green jobs with the right long-term policy commitments for offshore wind projects,"
says **Tommy Rahbek Nielsen, Vestas COO.**

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The new offshore blade factory is planned to be located at a site in northern Szczecin, which Vestas acquired in February 2023. The site is close to the Ostrów Brdowski Island in Szczecin where Vestas' planned nacelle assembly factory would be located. The assembly factory is expected to start operations in 2025 and create 700 direct jobs.

The new factories are planned to support European and to some extent global demand, playing a crucial role in supporting Poland and the European offshore wind market and industry. With the two new factories in Szczecin together with Vestas' already existing footprint, Vestas is expected to soon employ more than 2,500 people in Poland.

POLISH CHAMBER OF OFFSHORE WIND ENERGY INAUGURATED

15.01.2024

On 11 January 2024, the founding General Assembly of the Polish Chamber of Offshore Wind Energy (PIMEW), which will be a continuation of the Polish Offshore Wind Energy Society (PTMEW), was held in Gdynia. The founding members officially approved the statutes. Jakub Budzyński was appointed President of the Polish Chamber of Offshore Wind Energy (PIMEW). The founders indicated that PIMEW is the next step to strengthen the Polish offshore wind energy sector.

Building on the legacy of the Polish Offshore Wind Energy Society (PTMEW), PIMEW assumes a broader mandate with expanded functions. At its core, PIMEW's mission is to create an environment conducive to the robust growth of the Polish offshore wind industry.

PIMEW's multifaceted approach encompasses various strategic initiatives. Foremost is the commitment to the promotion of local manufacturers and service providers, aiming to bolster the domestic supply chain. By highlighting and supporting local talent, PIMEW seeks to enhance the global competitiveness of Polish companies in the offshore wind sector.

The chamber also commits to fine-tuning and creating essential support tools, including financial instruments such as insurance and credit, to empower businesses in the industry. This comprehensive framework is designed to underpin the sector's financial sustainability and success.

Recognizing the importance of a supportive legislative environment, PIMEW is poised to play a role in proposing legal changes and draft acts. By engaging in advocacy at the legislative level, the chamber aims to create an environment that not only facilitates industry operations but also positions Poland as a frontrunner in offshore wind energy.

PIMEW's agenda extends to the establishment of local, technical industry standards, ensuring the quality and safety of products and services. This commitment not only fosters innovation but also instills a culture of continuous improvement within the sector.

[Read the entire article here](#)

Source:PIMEW

BALTIC POWER OFFSHORE WIND FARM TO USE LOW-EMISSION STEEL

17.01.2024

The Baltic Power offshore wind farm, a joint project of ORLEN Group and Northland Power, will be the first in the world to be built using Low-emission steel produced almost entirely from recycled raw material in an electric arc furnace powered by renewable energy. The use of this material will reduce the turbine's lifecycle carbon footprint by 10 per cent. The Baltic Power farm will start production in 2026 and will be able to power more than 1.5 million households.

As the first offshore wind farm in Polish waters, Baltic Power is the beginning of a new chapter in Poland and is raising the bar on project sustainability. As an industry whose mission is to build a net-zero future, we look for innovative ways to execute on our vision across the entire value chain. This new technology does just that, setting a new standard for the entire global offshore wind industry to ensure we're sourcing sustainable materials to further reduce carbon footprints," said **Mike Crawley, President and Chief Executive Officer for Northland Power.**

Finding ways to decarbonise the emissions produced during the raw material extraction and refinement of steel is vital for us and the industry in general.

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Vestas sees the partnership with ArcelorMittal and the adoption of low-emission steel as a significant lever in reducing CO2 emissions within the wind industry. Commitment from our customers is vital to drive the transition so we are very happy that we can provide value to our customers with this solution.

*The Baltic Power project stands as a solid example of this progress, having secured the first order and affirming the delivery of substantial value to our customers." says **Dieter Dehoorne, Head of Global Procurement at Vestas***

The total budget of the Baltic Power project is estimated at around €4.73 billion. The project is financed under the Project Finance formula, with loan agreements totalling approximately EUR 4.4 billion concluded with 25 Polish and international financial institutions.



MILLION-EUR INVESTMENT BY WINDAR RENOVABLES IN THE PORT OF SZCZECIN

17.01.2024

In the first half of 2026, a production facility will begin operations in the Szczecin harbour, producing structural components (towers and foundations) for offshore and onshore wind turbines. The manufactured components will be transported using, among other things, sea transport.

The lease agreement for port areas has just been signed by the **Szczecin and Świnoujście Seaports Authority** and the leader in the offshore industry, the Spanish company **Windar Renovables**, operating in Poland through its subsidiary Windar Polska spółka z o.o. Earlier in October last year, the contractors in this case signed a preliminary lease agreement.

The production plant will be built on an approximately seventeen-hectare property located in the area of the Dębicki Canal in the Szczecin port. Ultimately, it will employ a total of over 400 people. **The value of the investment from the Spanish company will be approximately EUR 70 million.**

It was already less than two years ago that [BalticWind.EU](https://www.balticwind.eu) reported on Windar Renovables' plans in Poland.

This investment reinforces Windar renewables' position as a global leader in clean and sustainable energy through the production of towers and support structures for offshore wind energy.

This new international factory will enable Windar to increase its global presence and production capacity, following the successful development of previous investments in other tower factories abroad, such as India (2011), Brazil (2013), Mexico (2016), Russia (2018), in addition to the other 6 factories that the Spanish company has managed in Spain since its foundation in 2007.

Windar renewables, together with its strategic partner Navantia, is also actively involved in the production of substructures for offshore wind energy (jackets, monopiles and floating). **The two companies have jointly developed up to seven projects in the last seven years and are currently involved in several tenders for projects to be realised by 2025.**

Source: ZMPsiŚ SA. & BaticWind.EU

VESTAS: LAYING OF THE CORNERSTONE IN SZCZECIN

02.02.2024

Vestas, a global renewable energy industry partner for sustainable energy solutions, has laid the cornerstone for a planned offshore wind factory in Szczecin.

The ceremony, attended by His **Majesty King Frederick X of Denmark**, official representatives of the Polish and Danish governments and business partners, took place on February 2 at Ostrow Grabowski. It underscores Vestas' ambition to create an offshore wind energy center in Poland to help the energy transition and enhance Europe's energy security.

As early as October 2022, Vestas announced that they will set up a nacelle and hub assembly plant in Szczecin for its flagship V236-15.0-MW wind turbine. The plant will be operational in 2025 and will generate about 700 new jobs in the Szczecin area. This will almost double the company's workforce in Poland, as it already employs 800 people.

*Vestas intends to lead the development of a sustainable supply chain in Europe that can provide the scale needed to meet the expected growth in offshore wind demand. Our plans for new offshore factories in Poland send a strong signal that Europe can boost wind investment and green jobs with the right long-term policy commitments for offshore wind projects, says **Tommy Rahbek Nielsen, Chief Operating Officer of Vestas.***

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In January 2024, Vestas additionally announced plans to establish a second factory in Szczecin, Poland. The factory is expected to produce blades for V236-15.0 MW turbines and begin operations in 2026. At the second plant, Vestas will create more than 1,000 additional jobs. Vestas Poland is currently recruiting, and job opportunities can be found at www.vestas.com/careers/job-openings.

Source: Vestas

EQUINOR AND POENERGIA HAVE SELECTED SIEMENS GAMESA AS THEIR WIND TURBINE SUPPLIER FOR THE BAŁTYK II AND BAŁTYK III OWFS

16.02.2024

Equinor and Polenergia have selected Siemens Gamesa as their wind turbine supplier for the Bałtyk II and Bałtyk III offshore wind farms located in the Baltic Sea. The two energy companies have signed final contracts for the production, delivery and service of 100 modern offshore wind turbines. The signed contracts are crucial for the development of the two projects. With a total capacity of 1,440 MW, they will provide green energy for more than two million Polish households and strengthen Poland's energy security.

The SG 14-236 DD turbines ordered for the Bałtyk II and Bałtyk III projects are the largest offshore wind turbines manufactured by Siemens Gamesa to date. Each installed turbine will have a capacity of 14.4 MW. One revolution of the wind turbine's rotor will produce clean energy covering the electricity needs of one Polish household for four days.

*The ordered offshore wind turbines for the Bałtyk II and Bałtyk III projects are the flagship model of Siemens Gamesa, achieving impressive power output. The finalization of contracts for the production and delivery of offshore wind turbines are crucial for the development of our projects in the Baltic Sea and represents a very important step in the development of the entire offshore wind energy sector in Poland. – **Michał Michalski, CEO of Polenergia S.A***

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The contracts with Siemens Gamesa are for the design, supply, installation, and commissioning of 100 state-of-the-art offshore wind turbines, as well as their maintenance and warranty service. The agreement marks a final step following the reservation agreement signed by the two parties for the supply of the turbines in February 2022.

*With the final agreement signed with the turbine supplier for our Bałtyk II and Bałtyk III projects, we can move to the next stage of their development. We want to bring the best available renewables technologies to the Polish market, building a modern offshore wind power sector.– **Michał Jerzy Kołodziejczyk, Country Manager of Equinor in Poland:***

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In the second phase of the development of the Polish offshore wind sector, Equinor and Polenergia are also implementing the Bałtyk I project. An offshore wind farm with a capacity of up to 1,560 MW will be located approximately 80 km from the coast near Łeba

REPORT: FLAGSHIP INVESTMENTS WILL OFFER MORE THAN 11,000 NEW JOBS

20.02.2024

The wind industry will bring reliable and stable profits to the Polish economy in the coming decades, while increasing the involvement of domestic companies and industry. The Wind Industry Hub Foundation has compiled information on flagship wind power supply chain investments, which together will soon offer more than 11,000 new, well-paying jobs. Will Poland really become an industrial hub for the sector?

The Wind Industry Hub Foundation has gathered information on flagship wind power supply chain investments in Poland, which are already operating in Poland or have recently confirmed the location of industrial plants in our country, i.e. installation ports in Swinoujscie and Gdansk, service ports in Leba, Ustka or Wladyslawowo, Vestas wind turbine blade factory, Vestas wind turbine nacelle assembly factory, Baltic Towers tower factory, Windar tower factory or TFKable cable and wire manufacturing plant.

The entities identified in the Wind Industry Hub Foundation study will soon offer several thousand, well-paid jobs, among others, at installation and service ports, wind turbine component factories, assembly plants, transformer substation factories, cable or wire factories. Polish companies are already active players in the European supply chain, especially in the shipbuilding industry, which encourages the development of installation, maintenance and port services. Harnessing the business and industrial potential of wind power should be a priority in setting our country's new industrial policy – underlines **Dominika Taranko, Managing Director, Vice President of the Wind Industry Hub Foundation.**

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After Denmark and Germany, Poland is now the 3rd market for wind in the European Union. This is due to, among others, the fact that 30% of the Baltic Sea's potential for OWE has been identified in Polish territorial waters. On top of that, we have a great background when it comes to human resources – 3% of offshore workers in the world are Poles.

Poland's offshore wind farm project, worth about 40 MLD PLN 3 years after the passing of the offshore law, is already advanced. The offshore investment campaign with participation of Polish and foreign companies, has already resulted in more than a dozen flagship investments, which will initiate the creation of more.

Source:: Wind Industry Hub Foundation

PFR INVESTS PLN 500 MILLION IN INSTALLATION TERMINAL IN GDANSK

08.03.2024

The Polish Development Fund (PFR) will build an installation terminal for the operation of Offshore Wind Farms (OWF) at the BalticHub port in Gdansk. Part of the financing for the investment will come from the National Reconstruction Plan (NRP). The project will contribute to the dynamic development of wind energy in the Baltic Sea. It is scheduled for completion in 2026. PFR's investment in a new terminal at the port of Gdansk will expand Poland's area by 21 hectares.

The investment involves the creation of a new berth at the BalticHub terminal covering as much as **21 hectares**, with the length of the loading quay to be **800 meters**, and the depth of the basin at the berth to be 17.5 meters. This will allow the berthing of installation vessels and supply vessels for offshore terminals with an overall length of up to 170 meters. Earlier this year, the project company launched a competitive process for the selection of a general contractor. Construction work is scheduled to begin in mid-2024, and the project is scheduled to be completed in 2026. The project is being implemented under a "design and build" model.

The investment assumes financing from two sources. The special-purpose company set up to implement the project has applied for a direct grant, and the project has been identified for implementation from the EU's National Recovery and Resilience Plan (NRP). In turn, the PFR Investment Fund FIZAN will provide complementary debt financing to cover expenditures, VAT financing, and take a stake in the special purpose vehicle implementing the project.

Demand for offshore installation terminal infrastructure in the Baltic Sea is growing rapidly, in the context of planned investments in offshore wind farms. The estimated value of investments in offshore wind energy will amount to around PLN 130 billion in the coming years. **The construction of the first wind turbines in the Baltic is planned for late 2026/2027. By 2030, offshore wind energy will supply electricity annually to about 8 million households in Poland.**

In early 2021, the Council of Ministers approved Poland's Energy Policy until 2040 (PEP 2040). Its goals include the development of renewable energy sources and the implementation of offshore wind energy. The European Union's (EU) climate and energy policy, including its long-term vision of striving for EU climate neutrality by 2050, also has a significant influence on shaping the national energy strategy.

Source: PFR

ENERGA WYTWARZANIE AND NORTHLAND POWER ESTABLISH POLAND'S FIRST OFFSHORE WIND FARM SERVICE COMPANY

12.03.2024

Energa Wytwarzanie, an ORLEN Group company, and Northland Power, have established Baltic Offshore Service Solution, the first consortium in Poland offering a comprehensive suite of offshore wind farm management services.

The new company will specialise in a range of services tailored to the offshore wind energy sector, encompassing technical, operational, commercial, and contractual aspects. Additionally, the company will oversee the operation of the 24-hour Wind Farm Management Centre planned to be established by the ORLEN Group. Its responsibilities will include the monitoring, coordination, and control of offshore assets.

Offshore wind presents an opportunity for profound transformations in our power system and the development of new sectors in the economy. We are actively progressing with the Baltic Power project and plan to invest in projects in an additional five licences that are developed by ORLEN Neptun. At the ORLEN Group, we are poised to capitalise on the emerging business opportunities in the planning and operation of new wind farms. To this end, we will leverage our existing expertise from onshore projects, also drawing on the experience of our partner, a global leader in the offshore wind industry," – **said Jarosław Dybowski, Executive Director for Energy at ORLEN.**

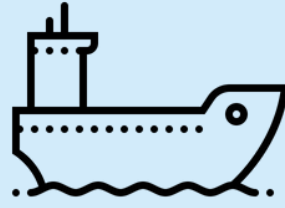
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The newly established company will build on the experience of Energa Wytwarzanie, which boasts a 15-year track record of maintaining onshore renewable energy assets and a portfolio of six wind farms with a combined capacity of approximately 244 MW. The entity is responsible for the maintenance of individual wind farm components, ensuring the technical efficiency and availability of power machinery and equipment, and conducting technical inspections.

Energa Wytwarzanie is a subsidiary of Energia (ORLEN Group), which operates in the area of electricity generation from RES and provides system services. Among other things, the company manages the country's largest run-of-river hydroelectric power plant in Włocławek and 44 small hydroelectric power plants located mainly in northern Poland.

Source: ORLEN

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ENERGA WYTWARZANIE AND NORTHLAND POWER ESTABLISH POLAND'S FIRST OFFSHORE WIND FARM SERVICE COMPANY

25.03.2024

Equinor and Polenergia have signed final agreements for the design of foundations for the Bałtyk II and Bałtyk III projects being developed by the two companies in the Baltic Sea. The development of design documentation for the locations of the two offshore wind farms, including the detailed design of the foundations, was entrusted to Rambøll. The signed agreements are another step in the realization of an investment of strategic importance to Poland's energy security.

Rambøll is a Danish-originated international consulting, engineering and design group with long experience in the area of offshore wind farms. The agreements with Equinor and Polenergia form the basis for Rambøll's engineering services for the 100 monopile offshore wind farms Baltic II and III, and will be in effect throughout the construction period of both farms.

The construction and commissioning of our wind farms in the Baltic Sea are fast approaching. The signed contract is further proof of the advancement of the projects we are developing together. Polenergia and Equinor are creating sources of renewable energy on a scale so far unprecedented in Poland's history. Our offshore projects are some of the largest wind farms being built in this part of Europe. The Bałtyk II and Bałtyk III projects alone will power more than 2 million households with green energy. This means a powerful acceleration of the energy transition, and thus – a huge support for the Polish economy” – Jerzy Zan, CEO of Polenergia S.A.

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The offshore wind farms Bałtyk II and Bałtyk III, with a total capacity of 1440 MW, will be located in the Polish exclusive economic zone of the Baltic Sea, between 22 and 37 km from the coastline. Once suppliers of all structural components have been contracted and the necessary permits have been obtained, the implementation phase will begin.

The first energy from the Bałtyk II and III wind farms is expected to flow into the grid as early as 2027. The commercial phase of their operation is planned from 2028. In the next phase of the development of offshore wind energy in Poland, Equinor and Polenergia are developing the Bałtyk I project with a capacity of up to 1560 MW, which will be about 80 km offshore.

Source: Polenergia

PGE AND ØRSTED SIGN CONTRACT FOR TRANSPORTATION AND INSTALLATION OF OFFSHORE SUBSTATIONS

28.03.2024

PGE Group and Ørsted have selected a supplier to transport to the area of the future farm and install offshore substations for the Baltica 2 project – one of two phases of the Baltica Offshore Wind Farm.

The successful bidder, Seaway7, is a world leader in offshore wind power projects. The company will use both crane and transport vessels to transport and install the offshore stations. Work is scheduled to begin in 2026. The four offshore substations will be designed, built and commissioned by the Semco/PTSC consortium.



PGE and Ørsted have already contracted all the necessary components for the Baltica 2 offshore wind farm, and have signed all the contracts for their installation. The partners have also selected a general contractor for the onshore connection infrastructure.

They already have all the necessary construction permits. The last step before construction begins will be for the investors to make a final investment decision (FID).

Pictured is one of the heavy lift vessels from the Seaway7 fleet; Source: PGE

Baltica 2 is one of two – along with Baltica 3 – phases of the Baltica Offshore Wind Farm.

PGE and Ørsted plan to complete the Baltica 2 stage, with a capacity of about 1.5 GW, by the end of 2027, and the Baltica 3 stage, with a capacity of about 1 GW, by 2030. Baltica 2 and Baltica 3 will form the Baltica Offshore Wind Farm with a total capacity of 2.5 GW, which will significantly contribute to the transformation of Poland's energy sector by providing green energy to nearly 4 million households in Poland.

Source: PGE

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