



IS WIND ENERGY BOOM STILL ON?



While energy transition activities are gaining speed and scale, green energy projects are still a good solution for those countries, which are lucky to have relevant conditions at hand. Wind farms remain an easy and efficient solution for the areas, which have lands and winds.

European countries have different strategies in terms of sustainability. Bilfinger Tebodin experts have good reasons to believe that wind farm projects would last for another decade across Europe. Here is what Pawel Rzodkiewicz, Business Development Director in Poland, says:

'Poland is historically a coal-burning country, which is now paying big taxes for emissions due to EU regulations. Having enough land and sea winds means investing into wind farms, water, solar, biogas power projects. Same we see in some big countries like Ukraine and Romania. Meanwhile, Germany, Spain or France are closing coal plants as well, steering both wind power and implementation of CO2 reduction projects'.

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In Poland the wind farms boom has started in 2008. Numerous projects were booming until 2015, when the changes in legislation had limited the construction of new wind farms. In 2018 the market was back to life, and the launched projects will definitely continue at least five more years.

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As the market is full, the investors are facing the challenge of workforce availability. Although these projects are more or less typical, they require excellent coordination of numerous involved parties and practical knowledge to ensure the legislation, environmental aspects and technical requirements are met. Therefore, reliable partners with impressive reference lists are worth gold.

Wind farm for Polenergia

Polenergia is the largest Polish independent energy group. Operating across countries of Central Europe, the company supports transition towards clean and renewable energy sources. Currently operating plants include onshore and offshore windfarms, photovoltaic farms, CHP (environment-friendly gas power plant).

A new project in Poland, Szymankowo wind farm, will consist of 11 wind turbines with total capacity of 38 MW.

A special type of turbines from Siemens Gamesa Renewable Energy (SGRE) will be used. Their new design solution enables to reduce the vibration of the tower during turbine operation by using a ballast in the form of one tower segment filled with 24 tons of gravel – at a height of 100 meters above the ground.



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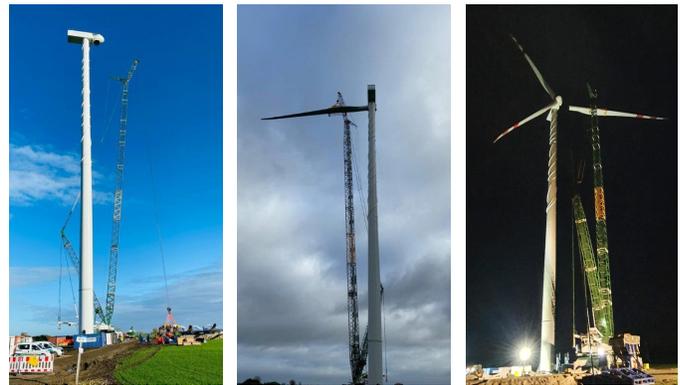
Bilfinger Tebodin is performing a function of the Owner's Engineer, providing overall project management, coordination and supervision, including investor supervision over the implementation of the investment and technical consulting services. Having a long-lasting relationship with Polenergia, we have successfully completed several projects together, including other wind farms, a biomass plant and burning coal power plants.

Tomasz Brzeski, Project Manager (Polenergia): 'The most important thing is the implementation of the project in a well-



coordinated team and good atmosphere between the investor, general contractor, contract engineer, and turbine supplier. All project participants should be committed to one goal, despite the various difficulties encountered during the implementation of the project. We are grateful to Bilfinger Tebodin for such atmosphere.'

Good utilities connection to ensure the efficient energy transfer is essential for wind projects, so Bilfinger Tebodin will also monitor the correct layout of foundations for 11 wind turbines. The team is developing the whole system of internal roads with assembly yards and exits from commune and private roads. Our works on electrical installations include a substation, from where the power connection of the wind farm will be made; a backup power supply; MV cable lines and fiber optic lines, ensuring the connection of wind farm facilities with MV switching station of a transformer station; earthing network.



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Katarzyna Pracka, Project Manager and the head of engineering team (Bilfinger Tebodin): 'Although wind farm projects are usually typical, each case is unique due to location, capacity and size. It is only precise management and an experienced team that may help in overcoming the challenges, which inevitably occur: severe water and soil conditions, the quality of screw elements of the foundations, working during the pandemic, timely delivery of components, etc.'

In the end of 2021, the road and foundation parts of the construction will be completed, and the assembly of the towers will begin.



Read more about our projects and services for energy sector on our website and get in touch with us to get advice on your future project! The journey starts from planning, and we are there to support and guide you through.

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