



GP REBLADE

ZERO WASTE

Wind Blade New Life



GP RENEWABLES
GROUP



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Do wind blade problems have a good solution? **We say - IT DOES!**



Wind power plants make energy production more sustainable and environmentally friendly. They help reduce CO₂ emissions and are the clear response to climate change. Nowadays wind turbines are recyclable in 90%, the last element that has been missing until today were the blades.

Where others see a problem, we see a chance for wind park owners to promote an environmentally friendly image and implement eco-solutions that serve local communities on a scale that no one had thought about before!

We offer our clients comprehensive services related to the dismantling / recycling or repowering processes of wind farms and recycling of wind blades. Everything can be done even „on site”, without high transport costs and CO₂ emissions.



Did you know that wind blades used in landscape architecture can decorate urban spaces for several dozen years as well as provide solutions for strengthening slopes or building houses? Wind blades numbers to be utilized in this way is unlimited!



The wind blade is made of glass (or carbon) fibers, combined with epoxy resin. Together they form an extremely durable, weather-resistant and environmentally friendly composite that does not react with the soil or the environment. Moreover, recycling in our way by rebuilding into engineering supplies or furniture offers many environmental benefits. First, it is very energy-efficient. Second, by producing furniture or bridges from wind blades, we avoid emissions related to the need to produce them from standard materials such as steel or concrete.

View our catalogue and see solutions helping to build your positive impact on whole wind industry.

GP REBLADE, CEO, **Wojciech Wilczyński**





How it works? Comprehensive solutions

Zero Waste



Circular economy



Positive investor's image



Checking the possibilities of re-using blades in the surrounding towns of the wind farms.



Turbines Dismantling.



Taking care of disposal of all turbine parts.



Re-using blades as useful elements for local communities.



Full Service after repowering

Foundation & geotechnical design



Soil improvement works



Building new foundations and roads



New Wind Farm





CSR & PR Solutions: building positive investor's image



Bicycle and Pedestrian Bridges

We've developed, patented and implemented a technology for the construction of bicycle and pedestrian footbridges that can successfully replace wooden, steel and concrete ones. Thanks to these solutions, the investor can build their own positive image for years by solving transport problems of local communities.



First in the world bicycle & pedestrian bridge was built by GP Reblade in Poland, Szprotawa town.

The construction was prepared in cooperation with the Rzeszów University of Technology and is fully based on a wind blade, which is a load-bearing element. It will serve people for the next 80 to 100 years. The costs of building a bridge using a wind blade are lower than those which use traditional technologies. Their maintenance is also easier and cheaper. Moreover,, when it is created, we significantly reduce the emissions of CO₂. This is a great success of the Zero Waste technology and the recycling of wind blades

*Rzeszów University of Technology, Roads and Bridges Department,
doctor of engineering **Mateusz Rajchel***





CSR & PR Solutions: building positive investor's image

Educational parks and spaces

Recycled elements such as blades, nacelle or hub, can be successfully transformed into public infrastructure and elements of small architecture that will serve local communities in parks, schools or offices. We are working towards linking these products with solar panels, which will allow users to charge phones, electric scooters, and others while resting on our bench.



When creating comprehensive arrangements of public areas, we use educational boards, strongly focusing on education in the field of green energy, closed-loop economy and recycling. Our elements can be easily painted or branded with the investor's logo. This year, the first projects of local parks are starting. Our solutions are also used by the largest housing developers, museums and private investors not related to the wind industry.

GP RENEWABLES GROUP, Board Member, **Sabine Sarnawski**





Small Architecture

For public and offices spaces



MAŁGORZATA BARTOSIK,
Wind Europe v-ce president



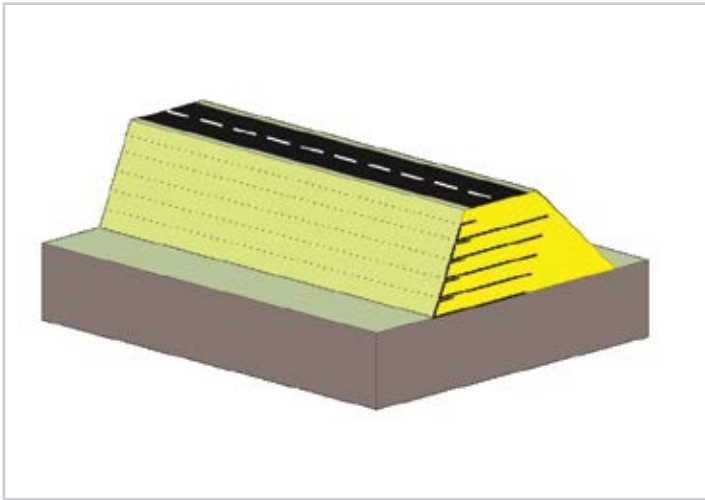
Our products are made almost 100% from the recycled elements. In addition to wind blades, we use composite boards made of recycled fibers. As a result, final products are resistant to all weather conditions and damages. They do not require maintenance and are environmentally friendly. It is ideal for public spaces, but its outstanding design makes it perfect for decorating the headquarters of the world's largest corporations.

GP WIND, Country Manager, **Fabrice Martin**



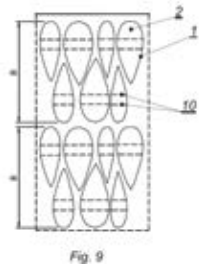
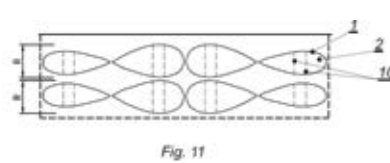
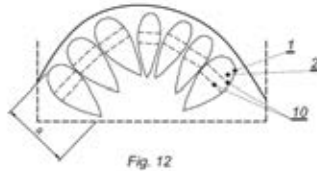
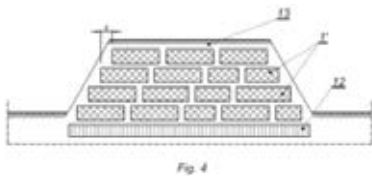


Large scale solutions: unlimited quantity of blades



Geotechnical Blocks

Revolutionary geotechnical blocks from cut wind blades. This product can be widely used in geotechnics as a solution for strengthening slopes, wharfs and port entrances. They can successfully replace concrete blocks or gabions filled with aggregate in all retaining structures.



The product is durable, resistant to weather conditions, including freezing temperatures. It can be used in water and on land. Structural elements have standardized dimensions, which facilitates their use on the construction site. Contrary to traditional gabions, wind blade blocks can be filled with the cheapest material that is available at the construction site - even with rubble. The biggest advantage of this solution is the price. By modeling the project properly, we are able to provide a much lower cost of its implementation compared to traditional technologies.

GP EARTH, Board Member, **Daniel Dalak**





Large scale solutions: the potential for unlimited quantity of blades



OSB & Chipboards with recycled wind blades

We use an innovative method for producing chipboards that are strengthened by shredded wind blades. Compared to classic solutions, they have a number of advantages such as price and better physical parameters. Our eco-board allows to reduce the number of the most expensive wood elements in the board production process. Thanks to the various methods of application, it gives unlimited possibilities of processing any amount of wind blades.



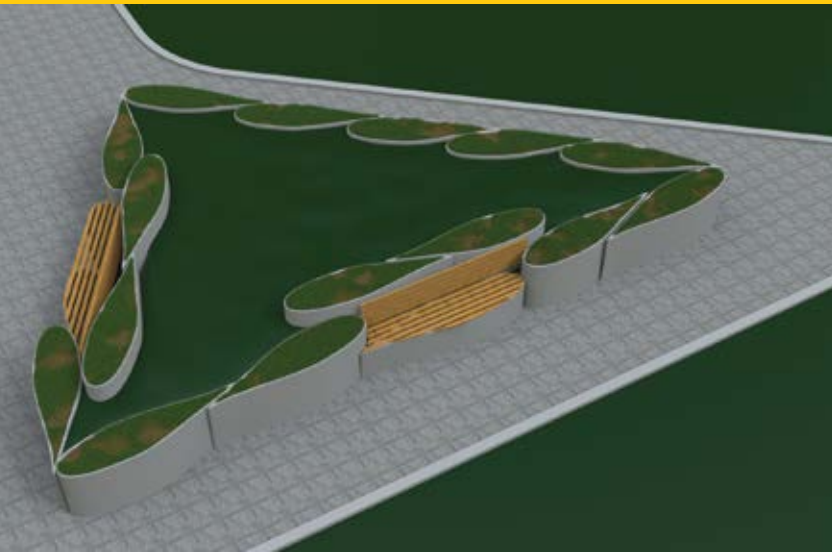
Boards with the addition of shredded wind blades already at a thickness of 14 mm achieve the same strength parameters as classic panels with a thickness of 20 mm. This means a reduction in the amount of material used and lower transport costs. Our boards reduce the susceptibility to absorbing moisture while increasing fire resistance parameters. These values can be adjusted by increasing or decreasing the amount of composite in the final product. Importantly, the board can be re-shredded and processed. In their production we use exactly the same machines as in the production of classic boards.

GP Reblade, CTO, **Marcin Sobczyk**

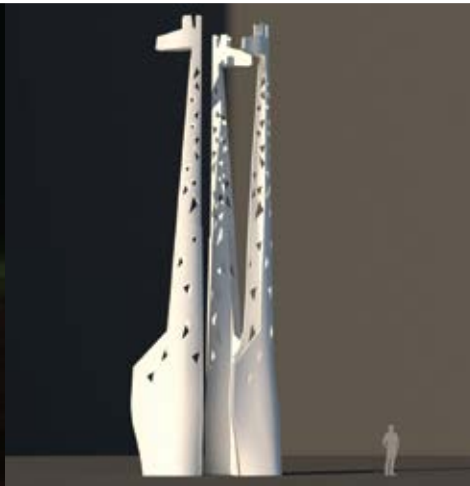




Other possibilities of using recycled wind blades



The possibilities of using recycled blades are endless. We are able to prepare any project that the client comes up with. Advertising totems, sculptures, office desks, garden arrangements, stairs or even wine cellars. The only limit is your imagination.



Foundation design
and optimization with
worldwide experience.



NEW CALEDONIA
Wind Farm Yate



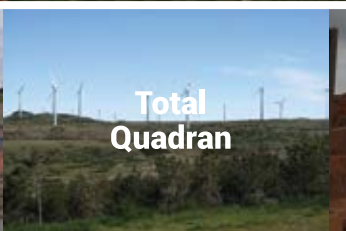
BORALEX



FRANCE
VSB



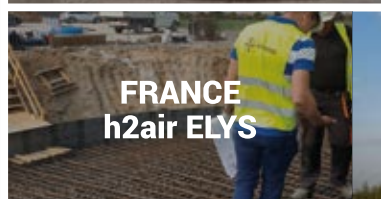
NETHERLANDS
NORDEX



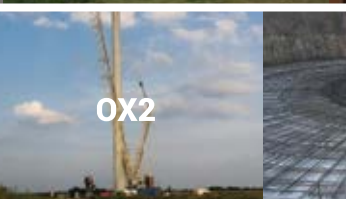
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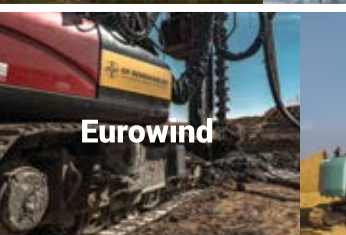
OX2



PGE SPIE



Iberdrola
CJR



Eurowind



ABO
WIND



Energix



RWE



V-ridium
Onde



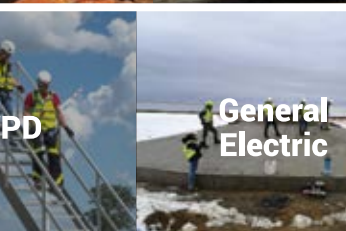
Mashav
Electrum



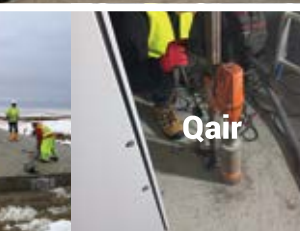
ERG



EDPR



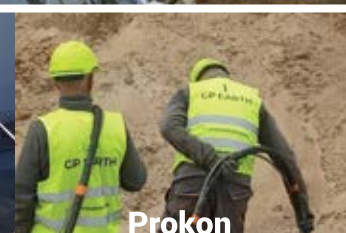
WPD



General
Electric



Polenergia



Prokon



BayWa r.e.

Geotechnical design.
Soil improvement works.

Foundation repairs,
expert opinions,
inspections,
tower deflection
movements



Tauron



Prokon



BayWa r.e.



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Membership in Wind Europe and PWEA



WE ENJOY TRUST AND HAVE REFERENCES FROM THE BIGGEST GROUPS:

