

Bladena, supported by EUDP, is heading a new large scale wind turbine project

Bladena, an internationally known Danish company, have received support from EUDP for a large scale wind turbine project, "Root Area Transition Zone" (RATZ), with a budget of 4,25 mill Euro. Bladena are experts in structural design of wind turbine blades and blade failures.

The project includes, "Product development and demonstration" of one of Bladena's patented technologies, the Floor. Additionally, the project focus on reducing the cost within the wind turbine industry through a series of lifetime extension analysis. Due to improved aerodynamic designs of blades, blades are becoming longer and heavier, thus increasing the edgewise loading during operation. This development have fostered an increased focus on maintenance of existing blades within the industry. The question is whether the optimization process can continue without considering damages and repairs seen on existing blades.



The project is a collaboration between 16 Danish and international partners. The participants represents the full value chain within the industry including universities, certification bodies, original equipment manufacturer, wind turbine owners and a number of smaller companies with different specialties.



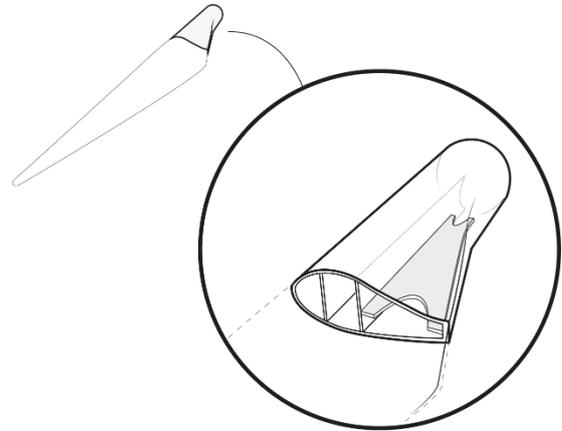
The Wind Turbine Owner, E.ON is participating in EUDP projects in order to increase their knowledge within blade design.

"Our participation is partly based on a very positive experience working with Bladena on previous EUDP projects. Projects, which Bladena have and is managing to the benefit of all partners. At EON, we have a special focus on combining theory with practice. A focus that equally is seen in the EUDP projects run by Bladena."

Birgit Junker, Blade Specialist at E.ON.

Ringsted, 29. februar 2016

The project examines the opportunity to structurally enhance the load carrying capacity of large wind turbine blades by installation of Bladena's load distribution Floor. The Floor stabilize the root section of the blade, supporting the blade during normal operation, thus avoiding failures in the root section. Failures in the root section are often seen on longer and heavier blades. During the project, the Floor product is brought to a market introduction stage. This development includes both sub component testing at DTU as well as full-scale blade tests at Blaests test centre in Aalborg.



The Floor increases the lifetime of the blades thereby reducing the "Levelized Cost of Energy for the turbine owners. This development will reduce the price of wind energy for the consumer, thus sending a strong signal about the development of the transition towards green energy.

The project has already started in January 2016 and runs until the end of 2018. For more information on the project, please contact project manager and CTO, Find Mølholt Jensen (fmj@Bladena.com), more information is available on www.Bladena.com