Collaboration with Nordex Group

ExxonMobil and the Nordex Group are working together to revolutionize wind turbine blade performance. This collaboration merges Nordex's expertise in onshore wind solutions with ExxonMobil's Proxxima™ materials innovation to advance sustainable energy.

Why this relationship matters

Enhanced productivity:
Proxxima™ resin's low viscosity offers a faster infusion cycle for energy-efficient manufacturing, reducing production time and increasing throughput.

Increased blade durability:
Improved impact strength and fatigue resistance for blades that can withstand wind energy demands, potentially extending their operational lifespan up to 35 years.

Production gains:

Using Proxxima™ systems in a Nordex test blade has shown:

5X faster
infusion times

10% reduction
in resin usage

On collaboration:
"Nordex and ExxonMobil are working a very trustworthy collaboration on the development and application of the DCPD resin for the wind application. The cooperation consists of fruitful and creative discussions, which leads to great achievements and solutions in the application of the material.

Without this trustworthy relationship the development would not have been that straightforward nor valuable on both sides. The learnings on the application of this material were very high across the teams, also the challenges. To overcome this, a relationship is crucial."

On Proxxima™ systems advantage:
"Proxxima™ systems help enable advantages in the manufacturing of rotor blades, which cannot be achieved with standard resins right now. It will lead to a reduction in cycle time and an improved infusion quality on the rotor blades."

Dr. Kai Ehrich
Group Lead Blade Materials,
Nordex Group

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