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We create
green energy



Tailored solutions for
**RENEWABLE
ENERGY**

www.3Acorematerials.com

Best performance and value for Wind applications

Best total cost of ownership

Wind turbine components and especially wind rotor blades need to optimally combine rigidity, a lighter weight and long-term stability. They should also be cost-efficient to assure grid parity. Furthermore, the increased production cycles require easy-to-process and temperature resistant materials. The structural design and the material selection play a decisive part in this design optimization.

With the **Hybrid Core Concept**[®], **3A Composites Core Materials** has the product portfolio, the expertise and the toolset to optimize the design of any sandwich structure for wind energy applications.

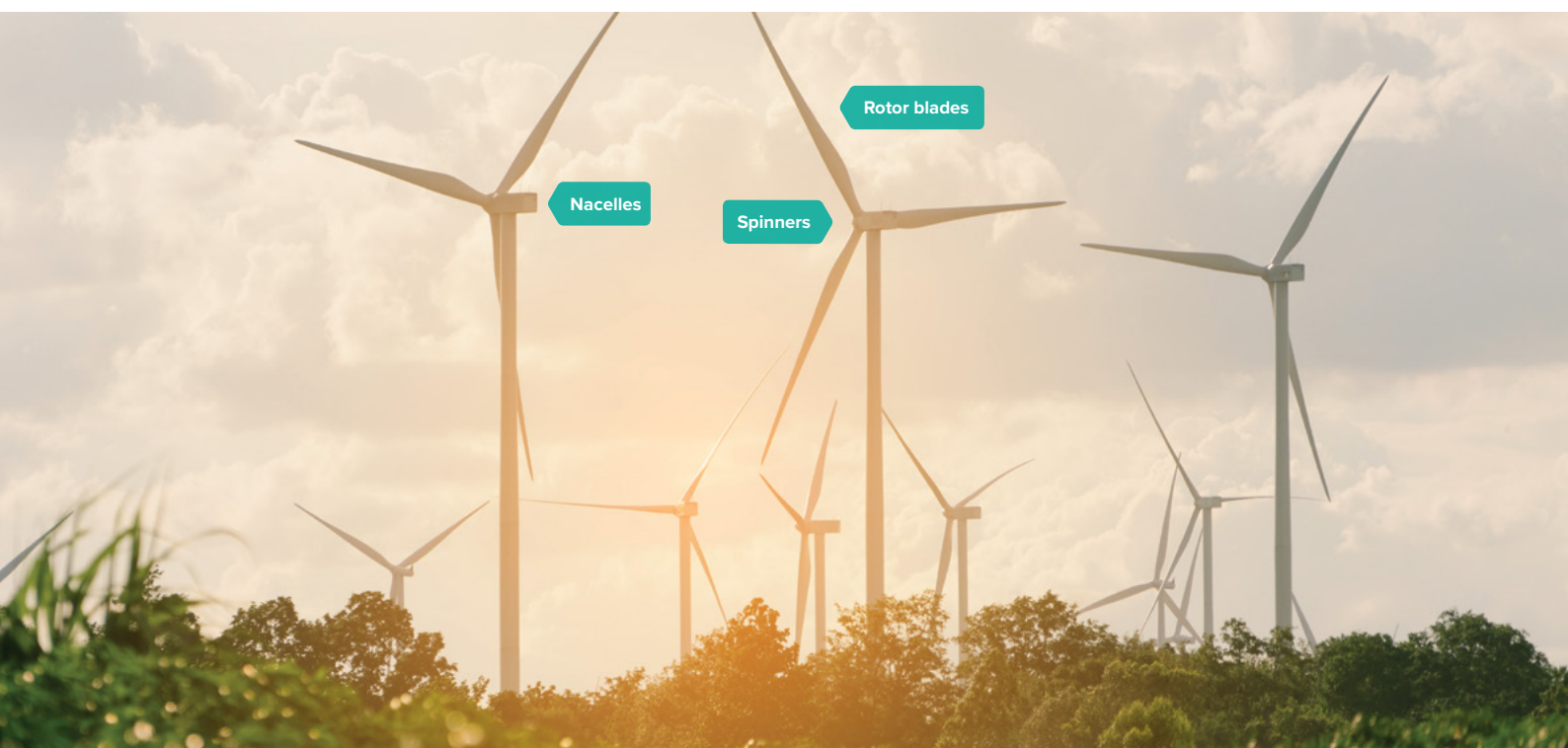
Our **AIREX**[®] and **BALTEK**[®] products offer you 6 top advantages:

- / Great strength and stiffness at lowest weight
- / Material availability and short lead times
- / Ease of processing
- / Excellent fatigue and long-term stability
- / Total Cost of Ownership
- / Core materials from renewable resources

For us, the deep understanding of our customers' fundamental requirements and their applications is the basis for fruitful customer service. Thus, we can then offer solutions that are best suited to optimally meet or exceed our customers different needs. The result is an optimized material solution that will support our customers to be even more successful in their markets.

3A Composites Core Materials offers the perfect sandwich solution for virtually any structural part of a wind energy installation such as:

- / Rotor blades (shear web, shells, edge close-outs)
- / Nacelles (covers, platforms)
- / Spinners



Our Wind Portfolio

Especially suitable materials

Shear webs

| | |
|------------------------------------|--|
| AIREX[®] T92 | Light, fatigue resistant |
| AIREX[®] T92 SealX | Very low weight, lowest resin uptake, total cost efficiency |
| AIREX[®] T10 | Performance advantage by alignment to load path, total cost efficiency |
| BALTEK[®] SBC | Extremely strong and rigid |
| AIREX[®] C70 | Especially light |

Shells root section

| | |
|------------------------------------|--|
| AIREX[®] T92 | Light, fatigue resistant |
| AIREX[®] T92 SealX | Very low weight, lowest resin uptake, total cost efficiency |
| AIREX[®] T10 | Performance advantage by alignment to load path, total cost efficiency |
| BALTEK[®] SBC | Extremely strong and rigid |

Shells, tip of blade

| | |
|------------------------------------|--|
| AIREX[®] T92 | Light, fatigue resistant |
| AIREX[®] T92 SealX | Very low weight, lowest resin uptake, total cost efficiency |
| AIREX[®] T10 | Performance advantage by alignment to load path, total cost efficiency |
| AIREX[®] C70 | Especially light |

Edge close-outs

| | |
|------------------------------------|---|
| AIREX[®] T92 | Light, fatigue resistant |
| AIREX[®] T92 SealX | Very low weight, lowest resin uptake, total cost efficiency |
| AIREX[®] T10 | Premium PET foam core total cost efficiency |

Nacelles

| | |
|------------------------------------|---|
| AIREX[®] T92 SealX | Very low weight, lowest resin uptake, total cost efficiency |
| AIREX[®] T10 | Premium PET foam core total cost efficiency |

Our core materials can be delivered with various finishing options for easy handling, efficient processing, maximum resin savings and best laminate aesthetics.

3A Composites Core Materials owns and manages through its forest companies, Plantabal S.A. and 3A Composites PNG Ltd., several thousand hectares of FSC[®]-certified balsa wood plantations in Ecuador (FSC-C019065) and Papua New Guinea (FSC-C125018).

3A Composites Core Materials is a global organizational unit within the 3A Composites Group, a part of Schweiter Technologies (SIX Swiss Exchange: SWTQ), with operations in Europe, the Americas, China, and Papua New Guinea.

Stronger, lighter, greener future

3A Composites Core Materials is a global leader with the broadest portfolio of high-performing and sustainable core materials with main focus on PET foam and balsa wood. We are the pioneers in sandwich technology with more than 75 years of experience.

Since the very beginning, our focus has been developing strong and solid, yet lightweight core materials, which allow manufacturing more durable, sustainable and energy-efficient end products for our customers.

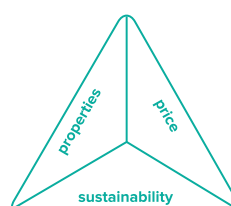
Our products also have the purpose of creating a stronger, lighter and greener future.

We have innovation deeply planted in our core

Each of our products is a result of profound expertise and advanced thinking of our engineers, working in partnership with our customers and leading experts and research institutes. We shape the industry trends and keep our offer at the cutting edge of technology.

We want to make the industry greener

Our commitment to sustainability is deeply ingrained in all aspects of our business, from developing sustainable products to protecting the natural environment and cultural heritage of the communities we work in.



Hybrid Core Concept[®]



The mark of responsible forestry



The mark of responsible forestry