

SUSTAINABLE METHODOLOGICAL STUDY OF WIND EXTRACTION, TRANSPORT AND RECYCLING





LEITMOTIV

When the wind turbine blade finishes its life in the wind energy sector our work begins. Taking full advantage, the components and structures are extracted from the wind turbine for its subsequent dismantling. Without wasting any material it is transferred using a cutting technique that allows simple and efficient transport.

At Ventos Metódicos Reciclagem LDA we specialize in waste management, strictly complying with the new guidelines stipulated by the European Union. **Circular economy, reuse** and **zero carbon footprint** in new products is the philosophy of our company.



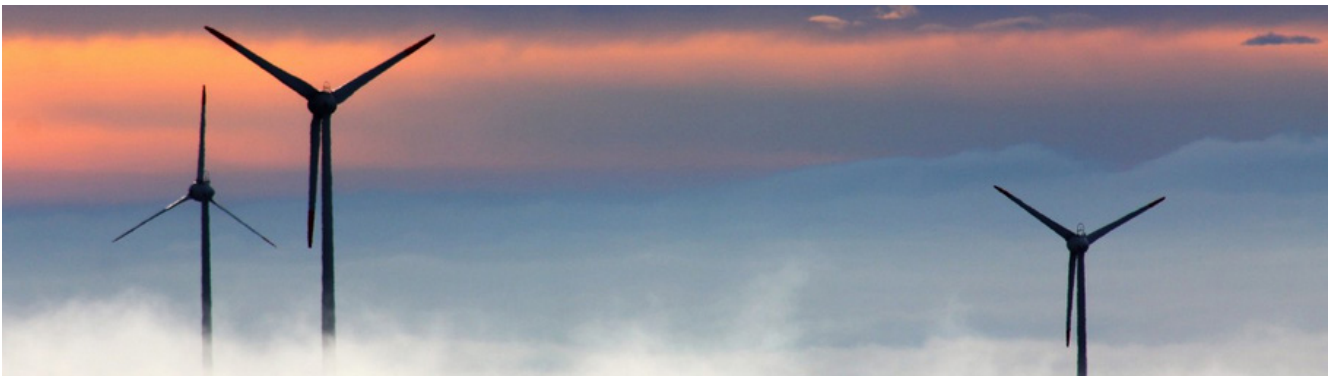
Circular economy



Reuse



Zero carbon footprint



RESOURCES



Sawmill truck accessible to the wind farm to implement first cuts.



Forklift for segment handling and for loading and unloading of material.



Qualified and certified personnel to carry out the operation.



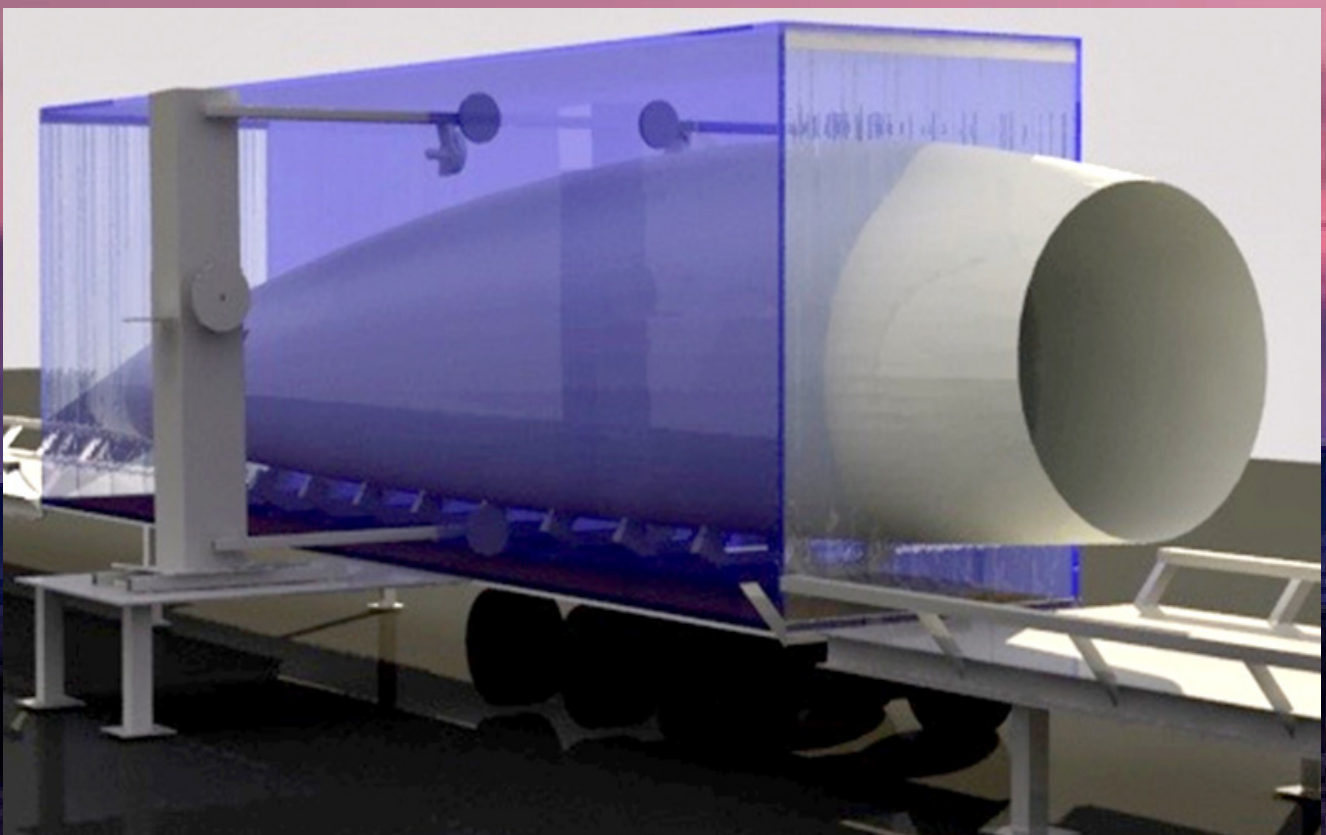
Materials and supplies necessary for the packaging and handling of wind blades.



CUTTING OPERATION

The cutting of the material, generating almost no waste, is the central axis of the recycling process. Once the blades have been disassembled they are segmented into divided sections to facilitate handling, loading and transport. Thanks to a pioneering system in the market, the blades are cut without causing environmental impact. The few resulting wastes are sucked out automatically, reserving them for other utilities.

Wind turbine sawmill truck.



TRANSPORT

After the completion of the cutting and packaging process, the material is loaded into a truck adapted for transfer to the processing line.

Transportation of wind blades in the trailer.

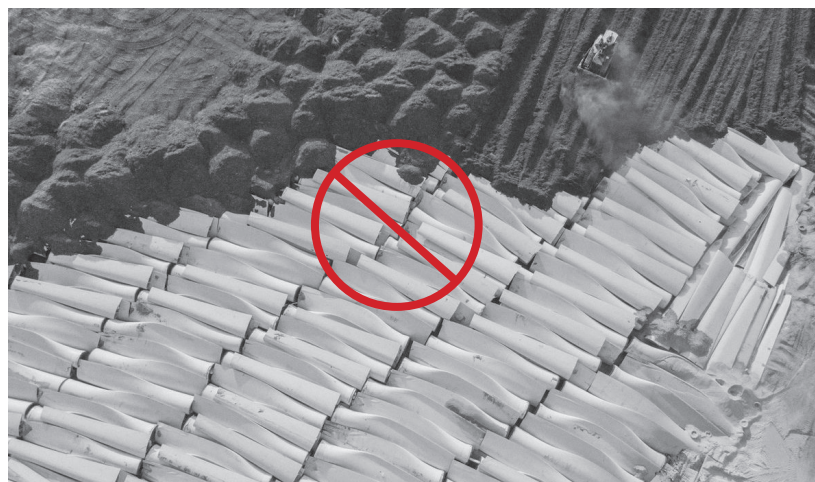


NEW LIFE OF THE BLADES

The main difference between our company and others lies in the **complete recycling of wind blades**. In contrast to the wind sector, at Ventos Metódicos Reciclagem LDA we guarantee that the waste undergoes an innovative recycling process that other countries do not have.

For example, in countries like the United States a high percentage of blades are buried creating a harmful impact on the environment.

Wind blades in burial process.



In Europe the blades are crushed for subsequent combustion or are subjected to chemical processes in order to separate their materials

Shovel crushing process for subsequent combustion.



To avoid these situations, our company focuses on giving a second life to wind blades. We are backed by experience and innovative interest.



TRANSFORMATION AND USEFUL SECOND LIFE

You can recognize Ventos Metódicos Reciclagem LDA by our logo



Thanks to our brand, the wind energy sector, especially blades, can no longer be said to be creating waste. We are transforming these materials into exclusive industrial, urban, office and domestic furniture through a pioneering technique in the recycling sector.

It is a non-invasive and completely sustainable process, whereby the impact of the carbon footprint is non-existent. With cuts and shapers, high-quality structures and certificates that demonstrate the material's resistance and exclusivity, *SOSTYL IR*® furniture is at the forefront of sustainability.

Blades cut for use as a lamp.



Multicolor light interior lamps.



Outdoor lamps at a marina dock in warm or cool light.



Black office table.



White office or dining table.



White outdoor bench.



Green outdoor bench.



White chairs.

Black chairs.





White interior benches.

White interior bench in bedroom.



USE OF RESULTING WASTE

Any waste from the manufacture of the new product also enjoys a second life: the small fragments and dust resulting from cutting is used for the manufacturing of structures in the maritime and agriculture industries. For example, the material can be used to create support structures for grape vines.



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Request your quote without obligation for the removal of
wind blades.



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