



Technology Partners in Blades



WIND BLADE SERVICES



GDES Wind is a global reference in wind blade services.

We focus on optimizing blade maintenance and also supporting customers in the design, manufacturing, inspection, audit, retrofit, and repair of all blade types and sizes.

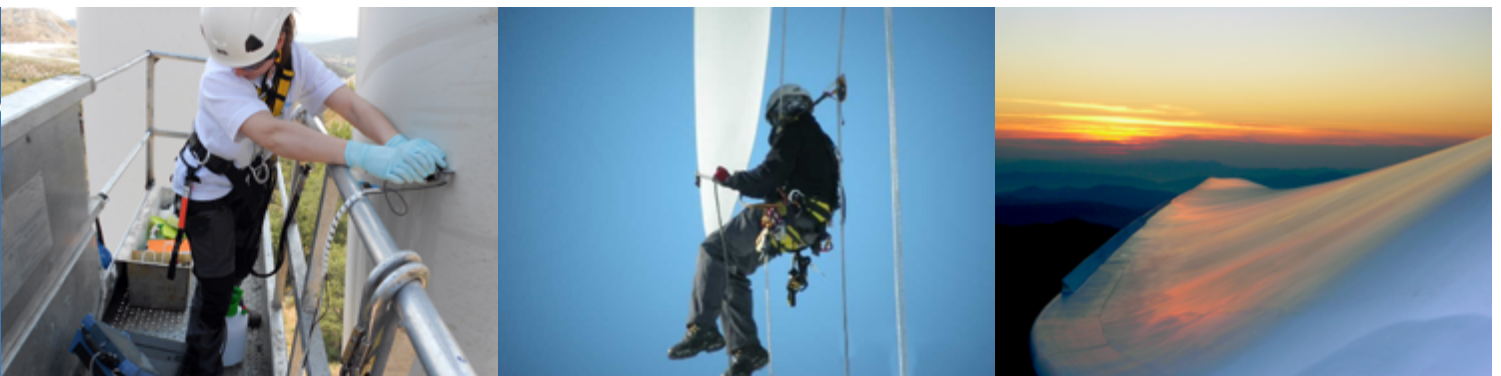
GDES Wind is your reliable partner in wind blade services: our ultimate objective is to maximize our customers' profitability.



Effectiveness through optimization

MAIN BLADE SERVICES PROVIDED:

- | OPTICAL, DIRECT AND INSTRUMENTAL INSPECTIONS (BOTH UPTOWER AND DOWNTOWER)
- | ON-SITE MAINTENANCE AND REPAIR | WORKSHOP REPAIR AND RETROFIT
- | ROTOR BALANCING | CONSULTANCY



Technology Partners in Blades

Repair in the field



Repair in the factory



Repair with suspended platform



Consulting and appraisals



Supply of materials



Manufacturing of
wind composite parts



Inspection



Training



Assembly and disassembly of
blades and rotors



R&D

In a field that is constantly developing, innovation is of the essence for **GDES Wind** to attain its objective of providing the **best rotor maintenance at the lowest cost per kWh produced**.

GDES Wind's innovative repair solutions mean **cost reduction for clients** by avoidance of rotors and blades lowering or blades replacements. Some of the innovative activities normally carried out are:

- Thermography analysis
- Phased-array ultrasonic analysis
- Pre-preg repairs
- Blade aerodynamic systems retrofit
- Rotor balancing at height/on ground

A research project is currently under way on Blade Inspection Innovation.



GDES Wind counts on the support of GD Energy Services **Technology Innovation Centre**: a 4,000sf facility at the Valencia University Polytechnic Innovation Park where GDES engineers work in synergy with researchers of the University to provide innovative solutions.



Know-How



Background History

GDES Wind, was established in 2004 (at that time Sálvoravento), as the first Spanish independent company in the field of blades and composite materials for the wind energy sector.

In April 2015 changes its name to **GDES Wind**, due to the integration to the **GD Energy Services Group**.

GDES Wind, Inc. and **GDES Eólica do Brasil** are subsidiaries of **GDES Wind S.L.**, that combined all of its values and Know-how with a knowledge base, personnel, experience and focus that are more local to the US and Brazilian wind market respectively.

GDES Wind inherits SálvoraVento's excellent track record and key values: safety at work, protection of the environment and quality of service.

GDES Wind is involved in everything related to wind blades. The attention is focused on maintenance, but support is also provided to our clients in design, manufacturing, inspection, auditing, retrofit interventions, etc.

Geographical presence

Since its beginning in 2004, the business has been rapidly expanding its area of intervention from Spain and the close markets of Portugal and France. To date, projects have been successfully undertaken in **26 countries on 5 continents** and projects can be accomplished anywhere in the world.

GDES Wind is now present in the North American market (US & Canada) from its offices in Denver, Colorado, and in South America from its offices in Sao Paulo, Brasil.

Quality and Safety

The Company is working on integration of Quality, Environment and Prevention of Occupational Risk and counts on certification by the prestigious DNV-GL (Det Norske Veritas-GL Global Service)

- Quality System (as per ISO 9001:2008 Standard),
- Environmental Management System (as per ISO 14001:2004),
- Prevention Management System (as per OSHAS 18001).



Human Capital

GDES Wind pays maximum attention to its people: thanks to technical and **personal capabilities, constant training, culture of safety, quality and environment** they are the heart of the organization, the key of any project success and the ultimate reason of clients' trust.



Experience

GDES Wind is a
GDES company

GDES Wind works with the most important companies in the sector at a global level: wind turbine OEMs, blade manufacturers, and major wind energy developers as well as with any company, entity or institution whose activities relate to wind turbine generator blades and composites.

Flexibility and understanding of the client's needs and adaptability to the most diverse environments allow **GDES Wind** to bring its services all around the world and to successfully carry out a wide variety of projects: from major retrofits to day-to-day consultations.

Always looking for **effectiveness and optimization**.

Member of





Global Presence



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