

# WINDTRACKER™ SERVICES



**MERSEN**



Thanks to new technologies and passionate professionals, the Wind Power industry is constantly striving to optimize the reliability and competitiveness of wind turbines to compete with existing energy sources.

From the early days of the Wind industry, Mersen's specialists have always been present in the field, sharing their expertise in electrical rotating machines with engineers and technicians alike.

Fully committed to this renewable energy market, Mersen decided to form a worldwide team of technical experts dedicated to Wind power: aptly named the Windtracker™ team. Their role is to assist wind turbine OEMs, farm operators and maintenance companies in improving wind turbine generator performance and reliability.



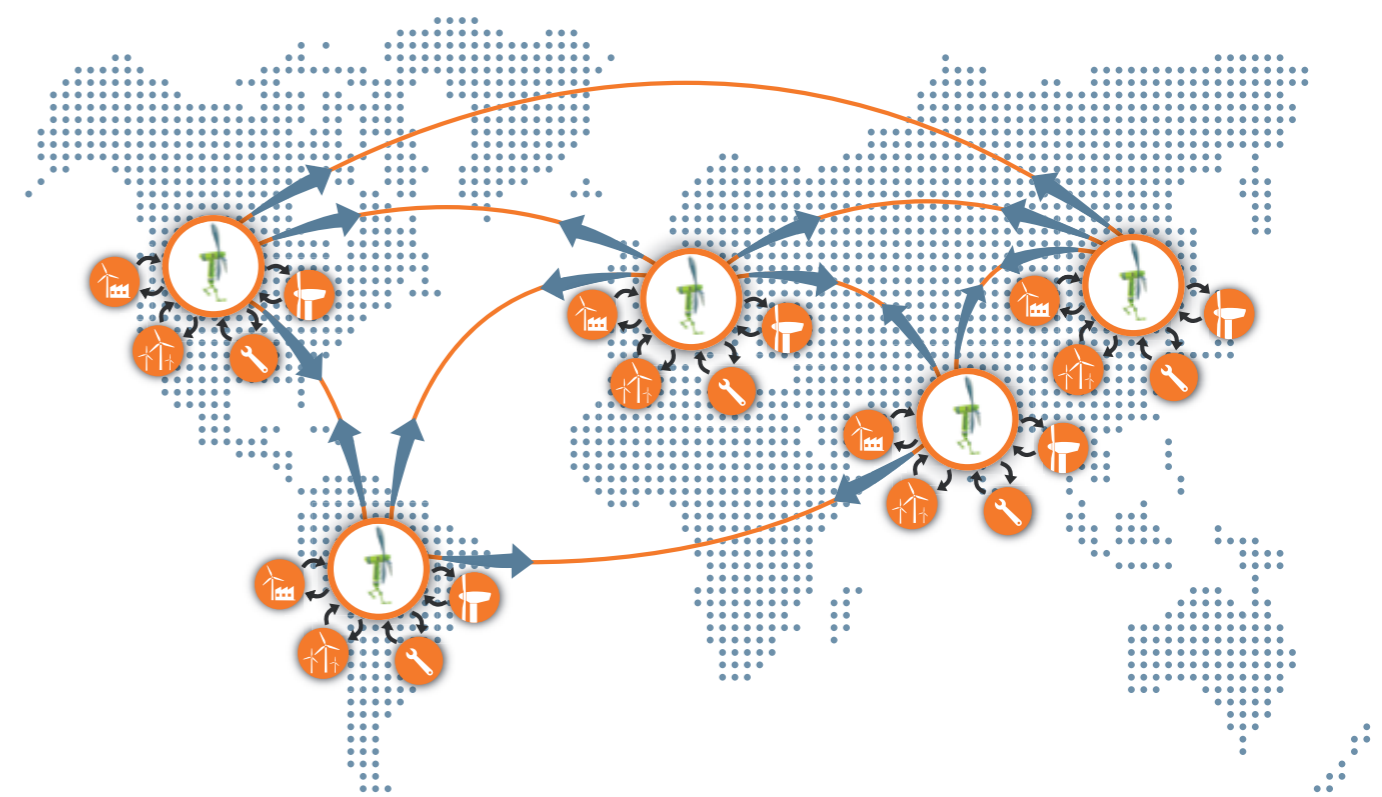
## Windtracker™ Concept






Maintaining constant contact with Wind power engineers and technicians, Mersen's Windtracker™ teams investigate customer concerns and potential difficulties. They carry out detailed analysis of the issues they are confronted with and provide them with adapted technical solutions.

Windtracker™ specialists gather data, improve their technical expertise and accumulate problem solving experience. By constantly improving and challenging their knowledge of overall wind turbine applications, they have built a shared intelligence reservoir for the benefit of the international wind turbine community.



A service dedicated to wind turbine generator performance and reliability



-  Windtracker™
-  Wind turbine manufacturers
-  Wind farms (Onshore / Offshore)
-  Maintenance companies
-  Wind generator manufacturers



### Windtracker™ Skills

Our Windtracker™ teams are technical experts in **signal & power transfer** with an extensive knowledge of **carbon brushes for rotating machines**. Moreover, they master AC power generation, DC pitch motors and lightning protection systems. Our specialists combine their **extensive field experience** with their **knowledge of critical wind turbine components** to improve their expertise of Wind turbine applications. Maintaining Wind turbines and working at heights present an inherent risk to wind engineers and technicians. Mersen considers the safety of its employees its top priority and requires them to work in accordance with **Mersen safety policy**. The Company arranges for **tower rescue, safety trainings** (e.g. Tractel®, PPE) and frequent **physical examinations** to ensure that Windtracker™ teams have the physical aptitude to work at heights securely.



### Proximity Service Onshore and Offshore

In order to share their knowledge among wind professionals, Windtracker™ experts developed **technical training sessions for wind turbine operators and maintenance crews**. Training sessions focus on preventive maintenance best practices:

- Carbon brush replacement
- Slip ring assembly compartment clean-out
- Generator slip ring resurfacing
- Hub slip ring and brush-holder maintenance

They are eager to train the next generation of wind professionals by providing **community colleges** (France, USA, Germany, Canada...) with **adapted technical sessions**.

Based on its extensive technical expertise in rotating machinery, Mersen has developed specific tools and devices for the maintenance of wind generators:

- **CL-Profiler devices** for the profile measurement of phase and ground slip ring assemblies
- **Dynamometers** to check brush-holders' spring pressure systems
- **Grinding attachments and Resurfacing Brushes** for in-situ slip ring repair
- **Slotting files** for helical-groove bevelling

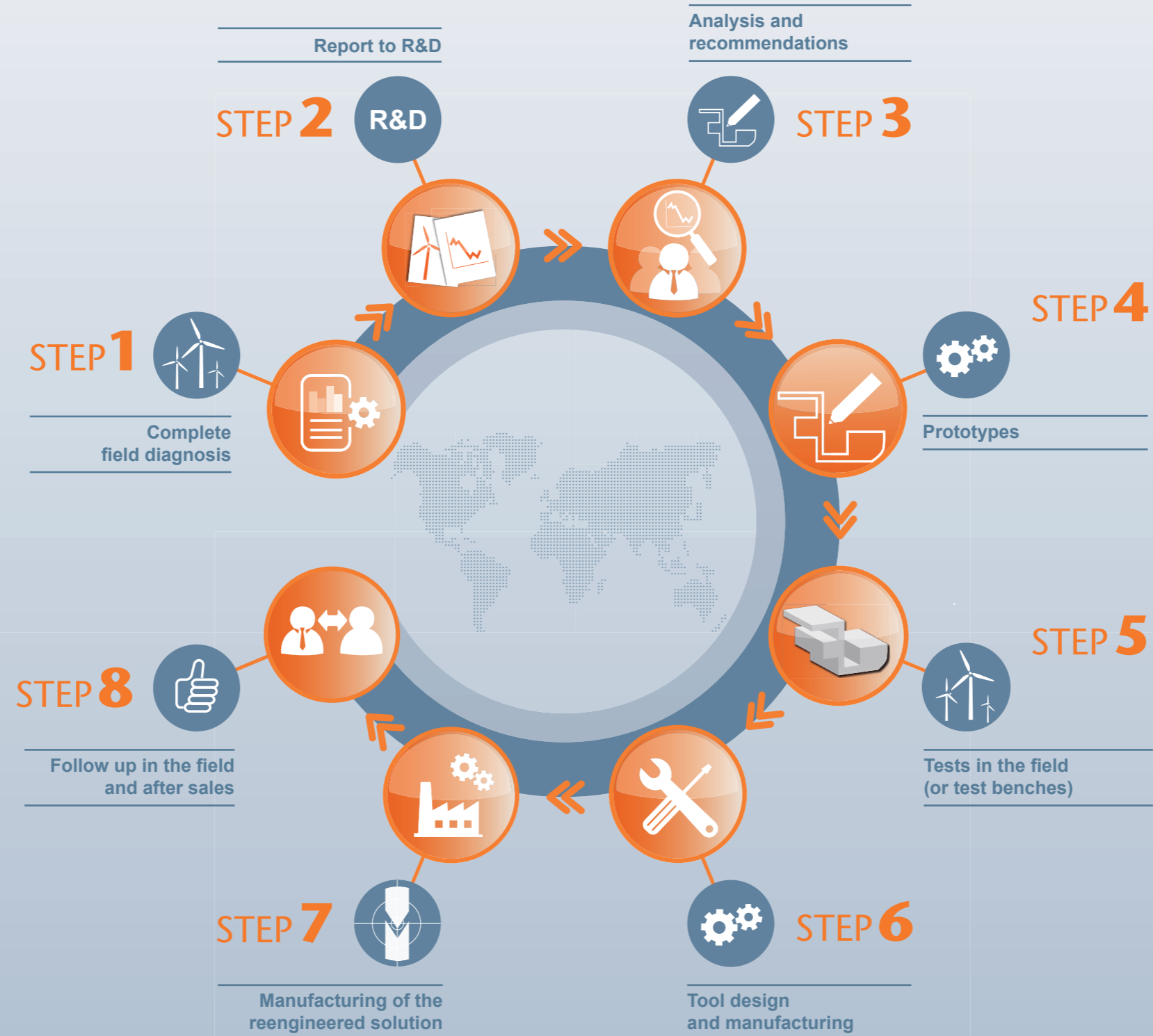




## Windtracker™ Reengineering services An 8-step process

Wind turbine uptime rate is critical. OEMs, owners, operators and maintainers of wind assets come to our experts for retrofit solutions when they are confronted with low performance issues.

Our 8-step process allows us to **assess the situation**, to **deliver the adapted solution** and to **ensure the follow up** in the field.





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### A GLOBAL PLAYER

Global expert in materials and solutions for extreme environments as well as in the safety and reliability of electrical equipment, Mersen designs innovative solutions to address its clients' specific

needs to enable them to optimize their manufacturing process in sectors such as energy, transportation, electronics, chemical, pharmaceutical and process industries.

[www.mersen.com](http://www.mersen.com)