



R&D&I vision and strategy

RES ENERGY GLOBAL SERVICES

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1 Vision of the R&D&I department

The VISION of the R&D&I department is fully aligned with the general VISION of the company's Services Segment, which is none other than to realise a world where everyone has access to affordable zero carbon energy. From this perspective, the R&D&I department will focus and direct all its efforts on developing products and services that enable us to provide effective and satisfactory solutions to the departments we work with, which in turn are provided to our customers. We will always work with the aspiration that these solutions will be fully competitive in our target markets, profitable for our business and useful for the day-to-day life of their users, whether they are internal or external customers.

2 R&D&I department strategy

In order to materialise the vision of R&D&I and, as mentioned, also of the Services Segment as a whole, the R&D&I department focuses its efforts and resources on maximising the production of renewable energy production facilities, optimising O&M tasks and costs and improving the safety of people and facilities. These, in turn, are the main pillars of the RES Vision in terms of service excellence: customer satisfaction. To this end, there are 4 main lines of research:

- **Application and/or improvement of technician-focused technologies.** Relating to improving the performance, capability and safety of maintenance technicians through technology.
- **Decision support systems.** Through Big Data, Industry 4.0 and connectivity between systems as decision support tools for the developer/manager of the facilities.
- **Monitoring, inspection and diagnosis.** Research into new predictive techniques, monitoring of new variables and generation of advanced algorithms on existing data to detect faults and estimate useful life.
- **Re-engineering.** Development of technologies and new services to generate the business lines of the future. Generation of new solutions to improve existing installations by reducing the number and duration of breakdowns.

In addition, the R&D&I department lays the foundations to generate the necessary know-how to operate and maintain the technologies of the future: floating wind power, marine currents...

In this field, it works in 2 areas:

- Design for maintenance and assembly.
- Criticality and reliability studies of new components.

In all cases, a fundamental part of the strategy will be based on listening to the end-user of the applications, both in terms of their problems, in order to find the best solutions, and by feeding back information on the results of the implemented solutions. In addition to this, all kinds of internal and external issues and the needs and expectations of stakeholders are taken into account in order to adapt the strategy according to this information.

These broad lines of research are considered to be generalist and flexible enough to be adaptable to the expectations of end-users, whether internal (RES) or external (customers) and relevant stakeholders, and, as



a result of feedback on the problems and efficiency of the solutions proposed and developed, to require changes in the direction of the developments to be carried out.